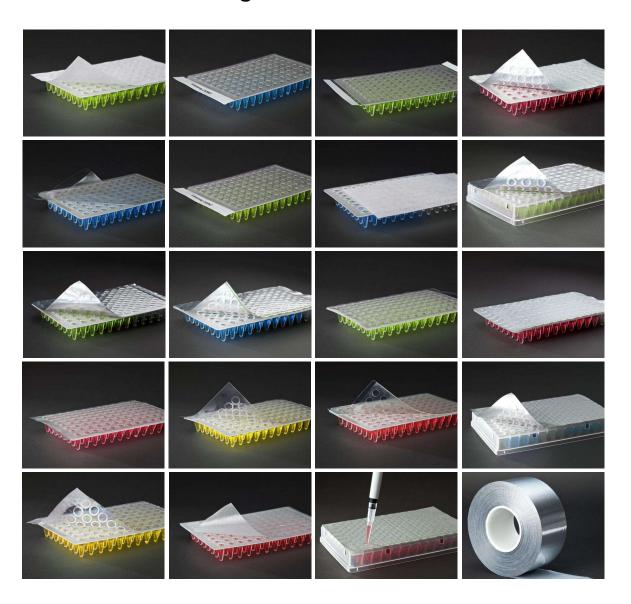


Sealing Foils & Films 2022





Sealing Foils & Films 2021

| 9095-10101 | Clear Seal Peel | Page 3 |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 9095-10102 | Clear Seal Weld | Page 4 |
| 9095-10103 | Clear Seal Pierce | Page 5 |
| 9095-10103-100M | Adhesive Crystallography Seal | Page 6 |
| 9095-10104 | Peel Seal Foil | Page 7 |
| 9095-10105 | Pierce Seal Foil DMSO | Page 8 |
| 9095-10106 | Pierce Seal Foil | Page 9 |
| 500317 | Pierce Seal Foil PS | Page 10 |
| 9095-10108 | Therm Seal Foil | Page 11 |
| 9095-10110 | Gas Perm Seal | Page 12 |
| 9095-10111 | Clear Seal Perf | Page 13 |
| 9095-10113 | Gas Perm Seal 2 | Page 14 |
| 9095-10114 | Peel Seal Foil Super | Page 15 |
| | | |
| | Adhesive Seals | |
| 9095-10115 | Adhesive Seals Pierce Seal Foil Super | Page 17 |
| 9095-10115 | | Page 17 Page 18 |
| | Pierce Seal Foil Super | |
| 9095-10120 | Pierce Seal Foil Super Quick Seal PCR | Page 18 |
| 9095-10120 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal | Page 18 |
| 9095-10120 9095-10121 9095-10122 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal Quick Seal qOptic | Page 18 Page 19 Page 20 |
| 9095-10121 9095-10122 9095-10124 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal Quick Seal qOptic Quick Seal Gas Perm | Page 18 Page 19 Page 20 Page 21 |
| 9095-10121 9095-10122 9095-10124 9095-10125 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal Quick Seal qOptic Quick Seal Gas Perm Quick Seal Micro | Page 18 Page 19 Page 20 Page 21 Page 22 |
| 9095-10120 9095-10121 9095-10122 9095-10124 9095-10125 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal Quick Seal qOptic Quick Seal Gas Perm Quick Seal Micro Quick Seal DMSO-X | Page 18 Page 19 Page 20 Page 21 Page 22 Page 23 |
| 9095-10120 9095-10121 9095-10122 9095-10124 9095-10125 9095-10126 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal Quick Seal qOptic Quick Seal Gas Perm Quick Seal Micro Quick Seal DMSO-X Quick Seal Foil PCR | Page 18 Page 19 Page 20 Page 21 Page 22 Page 23 Page 24 |
| 9095-10120 9095-10121 9095-10122 9095-10124 9095-10125 9095-10126 9095-10127 | Pierce Seal Foil Super Quick Seal PCR Quick Seal qPCR Crystal Quick Seal qOptic Quick Seal Gas Perm Quick Seal Micro Quick Seal DMSO-X Quick Seal Foil PCR Quick Seal PCR | Page 18 Page 19 Page 20 Page 21 Page 22 Page 23 Page 24 Page 25 |

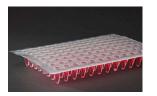




Clear Seal Peel

| | | ood optical clarity and e and non-pierceable | | nt resistant proper | ties. | | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------|-----------------------------------------------------------|
| | | | | | | | |
| | SF01078LR | ** Std | LabRoll™ | 1 Roll | 500m | Х | 78mm |
| | SF01078SR | ** Sterile | LabRoll™ | 1 Roll | 500m | Х | 78mm |
| | SF01115LR | *** VII Std | LabRoll™ | 1 Roll | 350m | х | 115mm |
| | SF01115SR | *** Sterile VII | LabRoll™ | 1 Roll | 350m | Х | 115mm |
| Oud suin s | | * Std | | | | | |
| Ordering | SF01078LS | | LabSheet™ | 100 Sheets | 125mm | Х | 78mm |
| | SF01078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | Х | 78mm |
| | SF01078TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 78mm |
| | SF01115TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 115mm |
| | SF01078TS | Trial | LabSheet™ | 5 Sheets | 125mm | х | 78mm |
| Compatibility | Polypropylene (PP) Olefin Copolymer (| , Polyethylene (PE), I COC) plates. | Polystyrene (PS) a | nd Cyclic | | | |
| Application | qPCR, short term co | ompound storage. | | | | | |
| | Store in a cool place | e Avoid direct expos | ure to sunlight. It | is recommended | to use the se | als v | within three years from |
| Storage | The state of the s | | | | | | ect sunlight, in original |
| Storage | packaging. | Thee years when sto | red at 21 C(70 F) | , 50% relative fluir | nuity, out of | une | ect sumignt, in original |
| Properties | Temperature range | e -80°C to 80°C | | | | | |
| | Tanaanahan aad f | | d- D | | | | |
| | | Owell Time: 180° C, 2 | | | | | |
| Sealing | Equipment: * Efly, | Kseal, 4s2 ** Wasp, 7 | [hermoALPS300/ | 3000, Kube, Flexise | al, | | |
| | Chameleon, REMP | (PHS) *** Agilent VII | Plateloc, REMP (I | LHS/SHS) | | | |
| | | | | | | | |
| | | Spec | ifications — | | | | |
| Visual Description | Clear and thick plas | tic seal. Sealing surfa | ce on inside of ro | ll and is less reflec | tive. | | |
| Physical Properties | Flexible plastic, diff Range: -80°C to +80 | | r surface feels vei | ry smooth, sealing | side has a sli | ight | rough feel. Temperatur |
| | | Test p | rocedures | | | | |
| | | terials ability to resis | | | | | |
| Mass Loss | Details: Mass loss o | f solution evaluated | after 30 cycles of | 3 step PCR Program | nme. Equipr | nent | t: ABI Thermocycler, |
| | Precision Balance. | | • | | | | , , |
| | | | | | | | |
| | Measuring the force | e required to push a | standardised ne | edle through the n | naterial via d | om | pression measuring |
| | equipment. Result | s: N/A | | | | | _ |
| Pierce | | • | needle, ensuring | that less than 10N | Lis required | to ni | ierce the surface & acce |
| | | nt Instron 3343 Tens | | that less than 101 | ns required | co p. | ieree the surface & acce |
| | the wells. Equipme | 111 111511011 3343 Tells | ometer. | | | | |
| | Dotormining the m | aterials optical clari | y by moscuring t | ho transmission o | f amissiva di | ıa th | rough the material |
| | | ateriais optical ciari | ly by measuring t | e u ansiinission 0 | i emissive a | ye tn | nough the material. |
| 0 | Results: Pass | light transmission = 1 | a coaled missa-l | ato ucina a Flura l | noro duo st- | ak aa | dution and a missaul-+- |
| Optical | • | | | ate using a riuropr | iore uye sto | LK SC | olution and a microplate |
| Optical | reader. Equipment | BMG Labtech - Fluro | Star | | | | |
| Uptical | | | of adhesion 0 its | ahility to be some | und via auto | ncic | n mascuring acuiers |
| Ортісаі | Moscuring the man | tariale normanance : | n aunesion & its | avility to be remo | veu, via exte | 11510 | iii iiieasuriiig equipmer |
| Ортісаі | · | terials permanence o | | | | | |
| Optical | Results: Pass | • | | 0.0 | | | |
| | Results: Pass Details: Cohesive F | ailure, Adhesive Trar | sfer, Material tea | ar & Successful Pee | l are measu | red 8 | & recorded after a 180° |
| | Results: Pass Details: Cohesive F | • | sfer, Material tea | ar & Successful Pee | l are measu | red 8 | & recorded after a 180° |
| | Results: Pass Details: Cohesive F peel test. Equipme | ailure, Adhesive Trar nt Instron 3343 Tens | sfer, Material tea ometer. | | l are measu | red 8 | & recorded after a 180° |
| Peel | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi | sfer, Material tea ometer. st low temperatu | res. Results: Pass | | | |
| Peel Low Temperature | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi | sfer, Material tea ometer. st low temperatu | res. Results: Pass | | | & recorded after a 180° |
| Peel | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specii | isfer, Material tea ometer. st low temperatu fied low temperat | res. Results: Pass | | | |
| Peel Low Temperature | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipme | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specif nt: Laboratory Cold s | usfer, Material tea ometer. st low temperatu fied low temperat torage unit. | r es. Results: Pass tures & subjected t | o a series of | test | s to substantiate seal |
| Peel Low Temperature | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipme | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specii | usfer, Material tea ometer. st low temperatu fied low temperat torage unit. | r es. Results: Pass tures & subjected t | o a series of | test | s to substantiate seal |
| Peel Low Temperature Seal Test | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipme | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specif nt: Laboratory Cold s rerials resistance to s | usfer, Material tea ometer. st low temperatu fied low temperat torage unit. solvents (DMSO u | res. Results: Pass tures & subjected t sed as an aggressiv | o a series of | test Res | s to substantiate seal |
| Peel Low Temperature | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipme Evaluating the mat Details: Sealed plat | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specif nt: Laboratory Cold s rerials resistance to see is subjected to a hi | sfer, Material tea ometer. st low temperatu fied low temperat torage unit. solvents (DMSO u gh concentration | tures. Results: Pass tures & subjected t sed as an aggression of DMSO for a tim | o a series of ve standard) e period at l | test Res ow t | s to substantiate seal ults: N/A emperatures after whice |
| Peel Low Temperature Seal Test | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipme Evaluating the mat Details: Sealed plat | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specif nt: Laboratory Cold s rerials resistance to s | sfer, Material tea ometer. st low temperatu fied low temperat torage unit. solvents (DMSO u gh concentration | tures. Results: Pass tures & subjected t sed as an aggression of DMSO for a tim | o a series of ve standard) e period at l | test Res ow t | s to substantiate seal ults: N/A emperatures after whice |
| Peel Low Temperature Seal Test | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipme Evaluating the mat Details: Sealed plat | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specif nt: Laboratory Cold s rerials resistance to see is subjected to a hi | sfer, Material tea ometer. st low temperatu fied low temperat torage unit. solvents (DMSO u gh concentration | tures. Results: Pass tures & subjected t sed as an aggression of DMSO for a tim | o a series of ve standard) e period at l | test Res ow t | s to substantiate seal ults: N/A emperatures after whice |
| Peel Low Temperature Seal Test | Results: Pass Details: Cohesive F peel test. Equipme Confirming the ma Details: Microplate integrity. Equipmel Evaluating the mat Details: Sealed plat seal damage & volu Polypropylene (PP | ailure, Adhesive Trar nt Instron 3343 Tens terials ability to resi s are sealed at specif nt: Laboratory Cold s rerials resistance to see is subjected to a hi | asfer, Material tea cometer. st low temperaturied low temperaturied low temperaturied low temperaturied low to a solvents (DMSO upperatured low | tres. Results: Pass tures & subjected t used as an aggressiv of DMSO for a tim aboratory Cold sto | o a series of ve standard) e period at I prage unit, D | Res ow t | s to substantiate seal ults: N/A emperatures after whice |

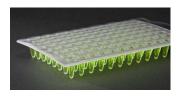




Clear Seal Weld

| Description | A strong, clear bo resistant and has | nding film which is ide a permanent seal. It is | | • | m nas good (| optic | al clarity is solvent |
|---------------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------|-------------------------|-----------------|--------|--------------------------|
| | | • | · | · | | | |
| | SF02078LR | ** Std | LabRoll™ | 1 Roll | 610m | Х | 78mm |
| | SF02078SR | ** Sterile | LabRoll™ | 1 Roll | 610m | Х | 78mm |
| | SF02115LR | *** VII Std | LabRoll™ | 1 Roll | 500m | Х | 115mm |
| | SF02115SR | *** Sterile VII | LabRoll™ | 1 Roll | 500m | х | 115mm |
| Ordering | SF02078LS | * Std | LabSheet™ | 100 Sheets | 125mm | Х | 78mm |
| Ordering | | | | | | | |
| | SF02078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | Х | 78mm |
| | SF02078TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 78mm |
| | SF02115TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 115mm |
| | SF02078TS | Trial | LabSheet™ | 5 Sheets | 125mm | Х | 78mm |
| Compatibility | A Permanent seal | to Polypropylene (PP |) | | | | |
| Application | qPCR, PCR, (water | bath thermal cycling |), storage, sample | inspection, dispos | al of hazard | ous i | materials, use with |
| | | | | | | _ | |
| | | | | | | | vithin three years from |
| Storage | date of purchase. packaging. | Three years when sto | red at 21°C (70°F) |), 50% relative hum | nidity, out of | dire | ct sunlight, in original |
| Properties | Temperature rang | ge -80°C to 110°C | | | | | |
| | Tomporature and | Dwell Time: 175° C, 2 | soconds Posomm | anded sealing | | | |
| Ca-!! | | | | | .al | | |
| Sealing | | , Kseal, 4s2 ** Wasp, ⁻ | | | eal, | | |
| | Chameleon, REMI | P (PHS) *** Agilent VII | Plateloc, REMP (| LHS/SHS) | | | |
| | | Conn | ! (' + ' | | | | |
| | | | ifications — | | | | |
| Visual Description | when sealing. | - | | | | | |
| Physical Properties | | t easily creased uppe re Range: -80°C to +1: | | th, sealing surface | on inside of | roll a | and feels rougher to the |
| | | ———— Test p | rocedures — | | | | |
| | Confirming the ma | aterials ability to resis | t high temperatu | ires Results Pass | | | |
| Mass Loss | | of solution evaluated | | | mme Fauin | nant | · ABI Thermocycler |
| 141033 2033 | , , | oi solution evaluateu | arter 30 cycles or | 3 Step FCK Flugial | ililie. Equipi | пеш | Abi illerillocycler, |
| | Precision Balance. | | | | | | |
| | Measuring the for | ce required to push a | standardised no | adla through the n | natorial via | omi | reccion measuring |
| | equipment. Resul | | stanuaruiseu ne | edie till odgil tile li | ilateriai via t | ,טווט. | oression measuring |
| Pierce | - ' | | | | | | |
| | • | | | that less than 10N | is required t | o pie | erce the surface & acces |
| | the wells. Equipm | ent Instron 3343 Tens | ometer | | | | |
| | | | | | | | 1.1 . 1.1 |
| | | naterials optical clari | ty by measuring t | the transmission o | t emissive d | ye th | rough the material. |
| Optical | Results: Pass | | | | | | |
| | | · light transmission of t BMG Labtech - Flurc | | ate using a Fluroph | ore dye stoc | k sol | lution and a microplate |
| | Measuring the ma | aterials permanence | of adhesion & its | ability to be remo | ved, via exte | nsio | n measuring equipmen |
| Deal | Results: N/A | | | | | | O 4: F |
| Peel | | Sailura Adhasiya Tran | cfor Material toa | r & Successful Deel | are measur | od 8 | recorded after a 180° p |
| | | nstron 3343 Tensomet | | i & Juccessiui Fee | are measur | eu o | recorded after a 180° p |
| Low Temperature | Confirming the m | aterials ability to resi | st low temperatu | ıres. Results: Pass | | | |
| Seal Test | Details: Microplat | es are sealed at speci | fied low temperat | tures & subjected t | o a series of | test | s to substantiate seal |
| Jean 1621 | | ent: Laboratory Cold s | | | | | |
| | , , , , , , , , , , , , , , , , , , , | | | | | | |
| | Evaluating the ma | terials resistance to | solvents (DMSO u | ised as an aggressi | ve standard) | Res | ults: N/A |
| | Details: Sealed pla | nte is subjected to a hi | gh concentration | of DMSO for a tim | e period at I | ow t | emperatures after whic |
| Solvent | | | | Laboratory Cold sto | | | |
| Solvent | J seal damage & vo | | | | | | |
| Solvent | seal damage & vo | iame 1035 are determi | | • | | | |
| | | | | | | | |
| Solvent Plate Types, Sealing Temp. Time Settings | Polypropylene (P | | | | | | |





Clear Seal Pierce

| Description | | | | sequencer. The fi | ım nas good | opti | cal clarity and moderate | |
|---------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|----------------|-------|-----------------------------------------------------|--|
| 2 cost iption | solvent resistance | , it is non-peel-able a | nd pierceable. | | | | | |
| | SF03078LR | ** Std | LabRoll™ | 1 Roll | 610m | х | 78mm | |
| | SF03078SR | ** Sterile | LabRoll™ | 1 Roll | 610m | Х | 78mm | |
| | SF03115LR | *** VII Std | LabRoll™ | 1 Roll | 500m | Х | 115mm | |
| | SF03115SR | *** Sterile VII | LabRoll™ | 1 Roll | 500m | Х | 115mm | |
| Ordering | SF03078LS | * Std | LabSheet™ | 100 Sheets | 125mm | Х | 78mm | |
| | SF03078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | Х | 78mm | |
| | SF03078TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 78mm | |
| | SF03115TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 115mm | |
| | SF03078TS | Trial | LabSheet™ | 5 Sheets | 125mm | Х | 78mm | |
| Compatibility | Polypropylene (PF (COC) plates. | P), Polyethylene (PE), F | Polystyrene (PS) a | nd Cyclic Olefin Co | polymer | | | |
| Application | Recommended fo | r use with the Abi 373 | 0 Sequencer as t | he thinner structur | e pierces mo | re e | asily | |
| Storage | · · | • | • | | | | vithin three years from ct sunlight, in original | |
| Properties | Temperature rang | ge -80°C to 80°C or 110 | O°C with pressuris | ed PCR heated lids | i. | | | |
| | Temperature and | Dwell Time: 175° C, 2 | seconds Recomn | nended sealing | | | | |
| Sealing | Equipment: * Efly | Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS) | | | | | | |
| | Chameleon, KLIVII | | | L113/3113/ | | | | |
| | | Spec | ifications — | | | | | |
| Visual Description | Clear and thick pla | stic seal. Sealing surfa | ice on inside of ro | oll and is less reflec | tive. | | | |
| Physical Properties | | fficult to crease, uppe C or 110°C with press | | | side has a sli | ght | rough feel. Temperature | |
| | | ——— Test p | rocedures — | | | | | |
| | Confirming the ma | aterials ability to resis | t high temperatu | ıres. Results: Pass | | | | |
| Mass Loss | Details: Mass loss | of solution evaluated | after 30 cycles of | 3 step PCR Prograi | nme. Equipr | nent | :: ABI Thermocycler, | |
| | Precision Balance. | | | | | | | |
| | | | | | | | | |
| | _ | rce required to push a | standardised ne | edle through the n | naterial via d | om | pression measuring | |
| Pierce | equipment. Resul | | | +h-+ l +h 10N | : : | | | |
| | | | | that less than 10N | is required t | o pie | erce the surface & acces | |
| | the wells. Equipm | ent Instron 3343 Tens | ometer. | | | | | |
| | Determining the r | naterials optical clari | ty by measuring t | he transmission o | f emissive d | e th | rough the material. | |
| 0.00.01 | Results: Pass | | ., ., | | | | | |
| Optical | | e light transmission of t BMG Labtech - Fluro | | ate using a Fluroph | ore dye stoc | k sol | ution and a microplate | |
| | | | | ability to be remov | ved via exte | nsin | n measuring equipmen | |
| | Results: N/A | accidas permanence (| or auricaion & its | asinty to be reinto | vau, via EXLE | 11310 | easuring equipmen | |
| Peel | | ailure Adhesive Trans | sfer Material tea | r & Successful Deal | are measur | ed 8. | recorded after a 180° p | |
| | | nstron 3343 Tensomet | | | are measur | cu X | μ | |
| Low Temperature | _ | aterials ability to resi | | | | | | |
| Seal Test | · | es are sealed at specif | • | tures & subjected t | o a series of | test | s to substantiate seal | |
| Jean rest | integrity. Equipme | ent: Laboratory Cold s | torage unit. | | | | | |
| | Evaluation the | storials resistance to | columnts (DNASO : | rod at an access | (O ctandard) | Doc | ulte: N/A | |
| | | aterials resistance to s | | | | | | |
| Solvent | | te is subjected to a nig lume loss are determi | | | | | emperatures after which | |
| | seai uaiilage & VO | iuilie 1035 die GelerMI | neu. Equipment i | Laboratory Cold Sto | nage uillt, D | IVIO | <i>า</i> รับเนเเบเโ. | |
| | (| | | | | | | |
| 5 1. 5 | | | | • · · · · | | | | |
| Plate Types, Sealing Temp. Time Settings | | P), Polyethylene (PE), ure and Dwell Time: 1 | | Cyclo Olefin Copo | lymer (COC) | | | |

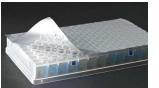




Peel Seal Foil

| | A peel-able, foil lan | ninate heat-seal film | which is suited for | or Polypropylene p | lates. The fil | m ha | as a good liquid barrier |
|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------|-------------|------------------------------------------------------|
| Description | 1 | tance to solvents. It | | | | | |
| | SF04078LR SF04078SR SF04115LR | ** Std ** Sterile *** VII Std | LabRoll™ LabRoll™ LabRoll™ | 1 Roll 1 Roll 1 Roll | 610m 610m 500m | x x x | 78mm 78mm 115mm |
| Ordering | SF04115SR SF04078LS SF04078SS SF04078TR SF04115TR SF04078TS | *** Sterile VII * Std * Sterile Trial Trial Trial | LabRoll™ LabSheet™ LabSheet™ LabRoll™ LabRoll™ LabRoll™ LabSheet™ | 1 Roll 100 Sheets 100 Sheets 1 Roll 1 Roll 5 Sheets | 500m 125mm 125mm 5m 5m 125mm | x x x | 115mm 78mm 78mm 78mm 115mm 78mm |
| Compatibility | Polypropylene (PP) | | Lubsineet | 3 3110013 | 12311111 | ^ | 7511111 |
| Application | PCR, low temperatidays). | ure, short term comp | oound storage, sh | ort term room tem | nperature co | mpo | und storage (less than 5 |
| Storage | · | • | - | | | | vithin three years from ct sunlight, in original |
| Properties | Temperature range | -80°C to 110°C | | | | | |
| Sealing | Equipment: * Efly, I | well Time: 175° C, 2 (seal, 4s2 ** Wasp, ⁻ (PHS) *** Agilent VII | ThermoALPS300/ | 3000, Kube, Flexise | eal, | | |
| | | Spec | ifications — | | | | |
| Visual Description | Metallic with upper | | | allic burnished foil | | | |
| Physical Properties | Flexible, not easily of | reased. Temperatur | e Range: -80°C to | +110°C | | | |
| | | ——— Test p | rocedures — | | | | |
| Mass Loss | Confirming the mat Details: Mass loss of Precision Balance. | | | | mme. Equipr | ment | :: ABI Thermocycler, |
| Pierce | equipment. Results Details 5 tests run u | | needle, ensuring | | | | pression measuring erce the surface & access |
| Optical | Results: N/A Details Record the I | | a sealed micropla | | | | rough the material. ution and a microplate |
| Peel | Results: Pass Details Cohesive Fa | | sfer, Material tea | | | | n measuring equipment. recorded after a 180° peel |
| Low Temperature Seal Test | Details: Microplate | terials ability to resi s are sealed at specit at: Laboratory Cold s | ied low temperat | | o a series of | test | s to substantiate seal |
| Solvent | Details Sealed plate | erials resistance to s is subjected to a hig ime loss are determi | gh concentration | of DMSO for a time | e period at lo | ow te | emperatures after which |
| Plate Types, Sealing Temp. Time Settings | | welds to Polyethylore and Dwell Time: 1 | | ain Cyclo Olefin Co | polymer (CC | OC) | |





Pierce Seal Foil DMSO

| • | sciences | | | | | |
|---------------------------------------------|------------------------|------------------------------------------------------------------------------|-----------------------|----------------------|----------------|------------------------------|
| Description | | foil laminate suited for temperatures). The | | | • | er and high solvent- |
| | SF05078LR SF05078SR | ** Std ** Sterile | LabRoll™ LabRoll™ | 1 Roll 1 Roll | 610m 610m | x 78mm x 78mm |
| | SF05115LR | *** VII Std | LabRoll™ | 1 Roll | 500m | x 115mm |
| Ordering | SF05115SR SF05078LS | *** Sterile VII * Std | LabRoll™ LabSheet™ | 1 Roll 100 Sheets | 500m 125mm | x 115mm x 78mm |
| . . | SF05078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | x 78mm |
| | SF05078TR SF05115TR | Trial Trial | LabRoll™ LabRoll™ | 1 Roll 1 Roll | 5m 5m | x 78mm x 115mm |
| | SF05078TS | Trial | LabSheet™ | 5 Sheets | 125mm | x 78mm |
| Compatibility | Polypropylene (PF | P) Plates. | | | | |
| Application | Low temperature | and ambient tempera | ature storage with | n DMSO and other | solvents | |
| Storago | | • | _ | | | als within three years from |
| Storage | packaging. | Three years when sto | ored at 21 C (70 F |), 50% relative num | naity, out of | direct sunlight, in original |
| Properties | Temperature rang | e -20°C to 120°C | | | | |
| Sealing | | Dwell Time: 175° C, 2 Kseal, 4s2 ** Wasp, | | | al. | |
| ocum ₈ | | P (PHS) *** Agilent VI | | | | |
| | _ | Spec | ifications — | | | |
| Visual Description | Upper glossy meta | llic surface. Sealing so | urface less reflect | ive, more highly bu | rnished and | smoother. |
| Physical Properties | Flexible, not easily | creased. Temperatu | |) +80°C. | | |
| | | | orocedures — | | | |
| Mass Loss | | sterials ability to resi of solution evaluated | | | mme. Equipn | nent: ABI Thermocycler, |
| | | | standardised ne | edle through the n | naterial via c | ompression measuring |
| Pierce | | • | | that less than 10N | is required to | o pierce the surface & acce |
| | Determining the r | | | the transmission o | f emissive dy | e through the material. |
| Optical | | light transmission of t BMG Labtech - Flurc | • | ate using a Fluroph | ore dye stoc | k solution and a microplate |
| | | aterials permanence | of adhesion & its | ability to be remo | ved, via exte | nsion measuring equipme |
| Peel | | ailure, Adhesive Tran nstron 3343 Tensome | | r & Successful Pee | are measure | ed & recorded after a 180° |
| Low Temperature Seal Test | Details: Microplat | aterials ability to resi es are sealed at speci ent: Laboratory Cold s | fied low tempera | | o a series of | tests to substantiate seal |
| Solvent | Details Sealed pla | terials resistance to te is subjected to a hi lume loss are determ | gh concentration | of DMSO for a time | e period at lo | w temperatures after which |
| Plate Types, Sealing Temp. Time Settings | Details Sealed pla | P), certain Cyclo Olefi te is subjected to a hi | gh concentration | of DMSO for a time | e period at lo | w temperatures after which |

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.



Temp. Time Settings



Pierce Seal Foil

| • | sciences | | - antha | | | | | | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------|-------------|------------------------------------------------------|--|--|
| Description | The state of the s | eal with easy sealing ceable and re-sealing | | tion and high solve | nt resistance | e incl | uding DMSO. The film is | | |
| | SF06078LR SF06078SR SF06115LR | ** Std ** Sterile *** VII Std | LabRoll™ LabRoll™ LabRoll™ | 1 Roll 1 Roll 1 Roll | 610m 610m 500m | x x x | 78mm 78mm 115mm | | |
| Ordering | SF06115SR SF06078LS SF06078SS SF06078TR | *** Sterile VII * Std * Sterile Trial | LabRoll™ LabSheet™ LabSheet™ LabRoll™ | 1 Roll 100 Sheets 100 Sheets 1 Roll | 500m 125mm 125mm 5m | x x x | 115mm 78mm 78mm 78mm | | |
| | SF06115TR SF06078TS | Trial Trial | LabRoll™ LabSheet™ | 1 Roll 5 Sheets | 5m 125mm | x x | 115mm 78mm | | |
| Compatibility | Polypropylene (PP |), Polystyrene (PS). | | | | | | | |
| Application | Low temperature a sample shipping. | and ambient tempera | ature storage with | n DMSO and other | solvents. PCI | R, co | mpound storage, | | |
| Storage | | | | | | | vithin three years from ct sunlight, in original | | |
| Properties | Temperature rang | Temperature range -20°C to 120°C | | | | | | | |
| Sealing | Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS) | | | | | | | | |
| | | Spec | ifications — | | | | | | |
| Visual Description | Metallic reflective | oil, with both sides a | ppearing very sin | nilar. Dashed line d | enotes the ι | ıppeı | r surface. | | |
| Physical Properties | Very flexible foil, n | ot easily creased. Ter | | :-20°C to 120°C. | | | | | |
| | | ——— Test p | rocedures — | | | | | | |
| Mass Loss | | terials ability to resist f solution evaluated | | | mme. Equipr | nent | : ABI Thermocycler, | | |
| Pierce | equipment. Result Details 5 tests run | | needle, ensuring | that less than 10N | | | erce the surface & access | | |
| Burst Testing | Details Record the | materials adhesic light transmission of BMG Labtech - Flurc | a sealed micropla | | ore dye stoc | k sol | ution and a microplate | | |
| Peel | Results: Pass Details Cohesive Fa | · | sfer, Material tea | • | | | n measuring equipment. recorded after a 180° peel | | |
| Low Temperature Seal Test | Details: Microplate | terials ability to resi es are sealed at speci nt: Laboratory Cold s | fied low temperat | | o a series of | test | s to substantiate seal | | |
| Solvent | Details Sealed plat | terials resistance to a e is subjected to a hig ume loss are determi | gh concentration | of DMSO for a time | e period at lo | w te | mperatures after which | | |
| Plate Types, Sealing | Polypropylene(PP) | , Polystyrene (PS) | | | | | | | |

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which





Pierce Seal Foil PS

| Description | multiple sealing an | d resealing propertientification and high s | s. The seal is pee | l-able Polystyrene | only and pie | rceat | face identification with ole. foil seal with easy el-able, pierceable and re- |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------|
| Ordering | SF07078LR SF07078SR SF07115LR SF07115SR SF07078LS SF07078SS SF07078TR SF07115TR SF07078TS | ** Std ** Sterile *** VII Std *** Sterile VII * Std * Sterile Trial Trial Trial | LabRoll™ LabRoll™ LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabSheel™ LabRoll™ LabRoll™ | 1 Roll 1 Roll 1 Roll 1 Roll 1 Roll 100 Sheets 100 Sheets 1 Roll 1 Roll 5 Sheets | 610m 610m 500m 500m 125mm 125mm 5m 5m 125mm | x x x x x x x x | 78mm 78mm 115mm 115mm 78mm 78mm 78mm 115mm 78mm |
| Compatibility | Polypropylene (PP) | , Polystyrene (PS). | | | | | |
| Application | PCR low temperatu | re compound storag | e, short term roo | m temperature cor | mpound stor | age. | |
| Storage | | • | - | | | | vithin three years from ct sunlight, in original |
| Properties | Temperature range -20°C to 110°C | | | | | | |
| Sealing | Equipment: * Efly, | Owell Time: 175° C, 2 Kseal, 4s2 ** Wasp, ⁻ (PHS) *** Agilent VII | ThermoALPS300/ | 3000, Kube, Flexise | al, | | |
| | | Spec | ifications — | | | | |
| Visual Description | Metallic reflective f | oil, with both sides a | ppearing very sim | nilar. Printed line d | enotes uppe | r sur | face. |
| Physical Properties | Very flexible foil, no | ot easily creased. Ter | | -20°C to 110°C. | | | |
| | | ——— Test p | rocedures — | | | | |
| Mass Loss | | erials ability to resist f solution evaluated | • | | nme. Equipr | nent | : ABI Thermocycler, |
| Pierce | equipment. Results Details 5 tests run u | | needle, ensuring | that less than 10N | | · | ression measuring rce the surface & access |
| Burst Testing | _ | | = | | e achieved 2 | bar | of pressure or greater. |
| Peel | Results: Pass Details Cohesive Fa | | sfer, Material tea | | | | n measuring equipment. recorded after a 180° peel |
| Low Temperature Seal Test | Details: Microplate | terials ability to resi s are sealed at speci nt: Laboratory Cold s | fied low temperat | | o a series of | tests | s to substantiate seal |
| Solvent | Details Sealed plate | erials resistance to see is subjected to a higume loss are determine | gh concentration | of DMSO for a time | period at lo | w te | mperatures after which |
| Plate Types, Sealing Temp. Time Settings | Polypropylene(PP) Temperature and D | , Polystyrene (PS) Owell Time: 175°C, 2 | seconds. | | | | |





Therm Seal Foil

| | A strong bonding f | ail to Dolynronylono | which is ideal for | water thermal aval | ore The fail | hac | good solvent resistance |
|----------------------|-------------------------------------------|----------------------------------------------------|----------------------|-------------------------|-----------------|-------|------------------------------------------------------|
| Description | | nd is peel-able and no | | water thermal cycl | ers. The foil | nas | good solvent resistance |
| | SF08078LR | ** Std | LabRoll™ | 1 Roll | 500m | х | 78mm |
| | SF08078SR | ** Sterile | LabRoll™ | 1 Roll | 500m | х | 78mm |
| | SF08115LR | *** VII Std | LabRoll™ | 1 Roll | 350m | Х | 115mm |
| | SF08115SR | *** Sterile VII | LabRoll™ | 1 Roll | 350m | Х | 115mm |
| Ordering | SF08078LS | * Std | LabSheet™ | 100 Sheets | 125mm | | 78mm |
| - Gruering | SF08078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | Х | 78mm |
| | SF08078TR | Trial | LabRoll™ | 1 Roll | 5m | х | 78mm |
| | SF08115TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 115mm |
| | SF08078TS | Trial | LabSheet™ | 5 Sheets | 125mm | х | 78mm |
| Compatibility | Polypropylene (PP |), Polystyrene (PS). | | | | | |
| Application | | | | its and other organ | ics, includin | g aci | ds and alkaline. Long |
| | term storage. Tran | sportation at low ter | nperature. | | | | |
| Storage | | • | • | | | | within three years from ect sunlight, in original |
| Properties | Temperature rang | e -20°C to 110°C | | | | | |
| | Temperature and | Dwell Time: 175° C, 2 | seconds Recomn | nended sealing | | | |
| Sealing | • | Kseal, 4s2 ** Wasp, | | - | al. | | |
| | | (PHS) *** Agilent VI | | | , | | |
| | | | | | | | |
| | | ———— Spec | ifications — | | | | |
| Visual Description | Upper highly reflec | tive metallic with a g | loss finish. Seal si | de burnished meta | l, duller but | still | shiny, less reflective. |
| Physical Properties | Foil, thermal seal. Range: -200°C to + | | low temperature | s. Thick, quite easy | to crease b | ut st | ill flexible. Temperature |
| | | ——— Test p | orocedures — | | | | |
| Mass Loss | | terials ability to resign of solution evaluated | | | nme. Equipi | ment | t: ABI Thermocycler, |
| | Measuring the for | ce required to push a | standardised no | edle through the n | natorial via | comi | proceion measuring |
| | equipment. Result | • | i standardised ne | edie till odgil tile li | iateriai via t | com | oression measuring |
| Pierce | | | needle ensuring | that less than 10N | is required t | o nie | erce the surface & access |
| | | ent Instron 3343 Tens | | that less than 2011 | is required t | o pi | erec the surface a access |
| | | | | | | | |
| | Determining the | materials adhesion | on to the plate. | Results Pass | | | |
| Burst Testing | Details Microplate | s are sealed and test | ed under pressure | e. Tests passed onc | e achieved 2 | 2 bar | of pressure or greater. |
| | Equipment Mini-b | urst 5 | | | | | |
| | Management | tariala narrossar su su | of odboo! 0 '' | abilianta be see | المماييات المما | | |
| | Measuring the ma | teriais permanence | or agnesion & its | ability to be remo | vea, via exte | ensio | on measuring equipment. |
| Peel | | ailura Adhasiya Tran | cfor Matorial toa | r 9. Successful Deel | are measur | - A 0 | recorded after a 100° peop |
| | • | stron 3343 Tensome | | i & Successiui Feei | are measur | eu a | recorded after a 180° peel |
| | test. Equipment in | 311011 3343 Tellsollie | ter. | | | | |
| Low Tomporations | Confirming the ma | terials ability to resi | st low temperatu | res. Results: Pass | | | |
| Low Temperature | | | | | o a series of | test | s to substantiate seal |
| Seal Test | | nt: Laboratory Cold s | | - | | | |
| | | | | read as an access : | o ctood | D | ulter Doce |
| | | terials resistance to | | | | | |
| Solvent | | | | | | | emperatures after which |
| | seai damage & vol | ume loss are determ | inea. Equipment l | Laboratory Cold sto | orage unit, D | IVISC | solution. |
| | | | | | | | |
| Plate Types, Sealing | Polypropylene(PP |). Polystyrene (PS) | | | | | |
| Temp. Time Settings | | Dwell Time: 175°C, 2 | seconds | | | | |
| remp. Time settings | | | | | | | |

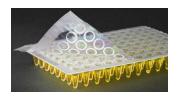




Gas Perm Seal

| Description | | oven porous and gas Polystyrene plates. 1 | | | | aminants. It seals to d free from nucleases and |
|---------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|
| | SF10078LR SF10078SR SF10115LR | ** Std ** Sterile *** VII Std *** Sterile VII | LabRoll™ LabRoll™ LabRoll™ | 1 Roll 1 Roll 1 Roll | 200m x 200m x 200m x | 78mm 115mm |
| Ordering | SF10115SR SF10078LS SF10078SS SF10078TR SF10115TR SF10078TS | * Std * Sterile Trial Trial Trial | LabRoll™ LabSheet™ LabSheet™ LabRoll™ LabRoll™ LabSheet™ | 1 Roll 100 Sheets 100 Sheets 1 Roll 1 Roll 5 Sheets | 200m x 125mm x 125mm x 5m x 5m x 125mm x | 78mm 78mm 78mm 115mm |
| Compatibility | Polypropylene (PF |), Polystyrene (PS). | | | | |
| Application | Short term incuba | tion, agriculture and | seed storage, inse | ect storage, cell cult | ture. | |
| Storage | | • | - | | | within three years from ect sunlight, in original |
| Properties | Temperature rang | e -20°C to 80°C | | | | |
| Sealing | Equipment: * Efly, | Dwell Time: 170° C, 2 Kseal, 4s2 ** Wasp, P (PHS) *** Agilent VI | ThermoALPS300/ | 3000, Kube, Flexise | al, | |
| | | Spec | ifications — | | | |
| Visual Description | White non-woven. | Seal side has a shiny | lacquer coating | | | |
| Physical Properties | Temperature Rang | ge: -20°C to +80°C. Co | mpatibility: Polyp | ropylene (PP), Poly | styrene (PS) | |
| | | ——— Test p | orocedures — | | | |
| Mass Loss | | iterials ability to resi of solution evaluated | | | nme. Equipme | nt: ABI Thermocycler, |
| Pierce | equipment. Result Details 5 tests run | | needle, ensuring | - | | npression measuring ierce the surface & access |
| Optical | Results N/A Details Record the | | a sealed micropla | | | hrough the material. |
| Peel | Results: Pass Details Cohesive F | | sfer, Material tea | | | on measuring equipment. & recorded after a 180° peel |
| Water Vapour Transmission | Details: Measure t | aterials ability to bre the weight loss of wat , Target: 1800 g/m²/2 | er during a set tir | | ature and humi | dity Test Method: T30/001, |
| Solvent | Details Sealed plat | terials resistance to te is subjected to a hi lume loss are determ | gh concentration | of DMSO for a time | period at low | temperatures after which |
| Plate Types, Sealing Temp. Time Settings | |), Polystyrene (PS) Dwell Time: 160°C, 2 | seconds. | | | |





Clear Seal Perf

| Description | | d gas permeable film, | | d seed culture, wit | h good optic | al cl | arity and moderate |
|---------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|--------------------|-----------------------|----------------|-------|------------------------------------------------------|
| | solvent resistance | . The seal is non peel- | -able. | | | | |
| | SF11078LR | ** Std | LabRoll™ | 1 Roll | 610m | Х | 78mm |
| | SF11078SR | ** Sterile | LabRoll™ | 1 Roll | 610m | х | 78mm |
| | SF11115LR | *** VII Std | LabRoll™ | 1 Roll | 500m | х | 115mm |
| | SF11115SR | *** Sterile VII | LabRoll™ | 1 Roll | 500m | х | 115mm |
| Ordering | SF11078LS | * Std | LabSheet™ | 100 Sheets | 125mm | х | 78mm |
| 0.008 | SF11078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | Х | 78mm |
| | SF11078TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 78mm |
| | SF11115TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 115mm |
| | SF11078TS | Trial | LabSheet™ | 5 Sheets | 125mm | х | 78mm |
| Compatibility | Polypropylene (PF Olefin Copolymer | P), Polyethylene (PE), I (COC) plates. | Polystyrene (PS) a | and Cyclic | | | |
| Application | Short-term incuba | ition, agriculture and | seed storage, inso | ect storage, cell cul | ture. | | |
| Storage | 1 | | | | | | within three years from ect sunlight, in original |
| Properties | Temperature rang | e -80°C to 80°C, or 11 | .0°C with pressuri | sed PCR heated lid | S. | | |
| Sealing | Equipment: * Efly | Dwell Time: 180° C, 2 Kseal, 4s2 ** Wasp, ' (PHS) *** Agilent VII | ThermoALPS300/ | 3000, Kube, Flexise | eal, | | |
| | | Spec | ifications — | | | | |
| Physical Properties | Temperature Rang | ge: -80°C to +80°C or 1 | l10°C with pressu | rized PCR heated li | ds | | |
| | | Test p | orocedures _ | | | | |
| Mass Loss | | eterials ability to resi of solution evaluated | | | mme. Equipr | ment | t: ABI Thermocycler, |
| | Measuring the for | ce required to push a | standardised ne | edle through the n | naterial via o | om | pression measuring |
| Pierce | | | | that less than 10N | is required t | o pie | erce the surface & access |
| | Determining the r | naterials optical clari | ty by measuring t | the transmission o | f emissive d | ye th | rough the material. |
| Optical | | light transmission of t BMG Labtech - Flurc | | ate using a Fluroph | ore dye stoc | k sol | lution and a microplate |
| Peel | Results: N/A Details Cohesive F | • | sfer, Material tea | • | | | n measuring equipmen |
| Low Temperature Seal Test | Details: Microplat | aterials ability to resi es are sealed at speci ent: Laboratory Cold s | fied low tempera | | o a series of | test | s to substantiate seal |
| Solvent | Details Sealed pla | iterials resistance to a te is subjected to a hip lume loss are determi | gh concentration | of DMSO for a time | e period at lo | w te | emperatures after which |
| Plate Types, Sealing Temp. Time Settings | | P), Polyethylene (PE), ure and Dwell Time: 1 | | , Cyclo Olefin Copo | lymer (COC) |) | |



pervair



Gas Perm Seal 2

| Description | Solid Contaminant | 0 1 | 0 0 | ' ' | , | Permeable and a Barrier to le and peel-able, and not |
|----------------------|---------------------|----------------------------------------------------------------------------------|--------------------|-----------------------|-----------------|-------------------------------------------------------------|
| | | *** • • | | " | | |
| | SF13078LR | ** Std | LabRoll™ | 1 Roll | 610m | x 78mm |
| | SF13078SR | ** Sterile | LabRoll™ | 1 Roll | 610m | x 78mm |
| | SF13115LR | *** VII Std | LabRoll™ | 1 Roll | 500m | x 115mm |
| | SF13115SR | *** Sterile VII | LabRoll™ | 1 Roll | 500m | x 115mm |
| Ordering | SF13078LS | * Std | LabSheet™ | 100 Sheets | 125mm | x 78mm |
| | SF13078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | x 78mm |
| | SF13078TR | Trial | LabRoll™ | 1 Roll | 5m | x 78mm |
| | SF13115TR | Trial | LabRoll™ | 1 Roll | 5m | x 115mm |
| | SF13078TS | Trial | LabSheet™ | 5 Sheets | 125mm | x 78mm |
| Compatibility | Polypropylene (PF | P), Polystyrene (PS). | | | | |
| Application | Short term incuba | tion, agriculture and | seed storage, inse | ect storage, cell cul | ture. | |
| Storage | | | | | | als within three years from direct sunlight, in original |
| | packaging. | | | | | |
| Properties | Temperature rang | ge -20°C to 80°C | | | | |
| | Temperature and | Dwell Time: 175° C, 2 | seconds Recomn | nended sealing | | |
| Sealing | | , Kseal, 4s2 ** Wasp, P (PHS) *** Agilent VI | | | eal, | |
| | | Spe | cifications — | | | |
| Visual Description | Upper 60gsm pape | er. Seal side grid effec | ct lacquer coating | | | |
| Physical Properties | Temperature Ran | ge: -20°C to +80°C. Co | mpatibility: Polyp | ropylene (PP), Poly | /styrene (PS) | |
| | | | procedures — | | | |
| Mass Loss | | aterials ability to resi of solution evaluated | | • | mme. Equipm | ent: ABI Thermocycler, |
| | | | a standardised ne | edle through the r | naterial via co | ompression measuring |
| Pierce | equipment. Resul | | | | | |
| 1 10100 | Details 5 tests run | using a standardised | needle, ensuring | that less than 10N | is required to | pierce the surface & acces |
| | the wells. Equipm | ent Instron 3343 Tens | someter. | | | |
| | Determining the r | naterials optical clar | ity by measuring t | the transmission o | f emissive dy | e through the material. |
| Optical | Details Record the | e light transmission of t BMG Labtech - Flure | | ate using a Fluroph | ore dye stock | solution and a microplate |
| | Measuring the ma | aterials permanence | of adhesion & its | ability to be remo | ved, via exter | ision measuring equipmen |
| Peel | | ailure, Adhesive Trar nstron 3343 Tensome | | r & Successful Pee | l are measure | d & recorded after a 180° p |
| Porosity Bendsten | | | | | specified pres | sure. Test Method: ISO378 |
| Solvent | Details Sealed pla | iterials resistance to te is subjected to a hi lume loss are determ | gh concentration | of DMSO for a time | e period at lov | w temperatures after which |
| Plate Types, Sealing | Paliment In 17 | 2) Dalambar (20) 0 | unia Olafia Cara I | (606) | | |
| Temp. Time Settings | | P) Polystyrene (PS) C | | /mer (COC) | | |
| remp. Time Settings | Temperature and | Dwell Time: 175°C, 2 | seconds. | | | |





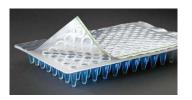
Peel Seal Foil Super

| | A "stick to all" pee | -able, foil laminate h | eat-seal film whic | th is suited for all p | late types - I | Polyr | propylene (PP), |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|--------------------------|----------------|--------|---------------------------|
| Description | Polystyrene (PS) ar | d Cyclo Olefin Copoly | mer (COC). The f | ilm has a good liqu | id barrier ar | d hig | gh resistance |
| | | el-able (from -80°C fr | eezer) and is non | -pierceable. This se | eal has a whi | te co | lour to the top |
| | aspect. | | | | | | |
| | SF14078LR | ** Std | LabRoll™ | 1 Roll | 610m | Х | 78mm |
| | SF14078SR | ** Sterile | LabRoll™ | 1 Roll | 610m | Х | 78mm |
| | SF14115LR | *** VII Std | LabRoll™ | 1 Roll | 500m | Х | 115mm |
| | SF14115SR | *** Sterile VII | LabRoll™ | 1 Roll | 500m | Х | 115mm |
| Ordering | SF14078LS SF14078SS | * Std * Sterile | LabSheet™ | 100 Sheets 100 Sheets | 125mm 125mm | X | 78mm 78mm |
| | SF14078TR | Trial | LabSheet™ LabRoll™ | 1 Roll | 5m | X X | 78mm |
| | SF14115TR | Trial | LabRoll™ | 1 Roll | 5m | X | 115mm |
| | SF14078TS | Trial | LabSheet™ | 5 Sheets | 125mm | Х | 78mm |
| Compatibility | Polypropylene (PP |), Polystyrene (PS) & | Cyclo Olefin Copc | olymer (COC) plates | ; | | |
| | PCP low tempera | ture short term come | nound storage, sh | ort term room tem | nerature co | mno | und storage (less than 5 |
| Application | days). | ture, short term comp | Journa Storage, Sir | ort term room ten | iperature co | про | unu storage (less than 3 |
| | | • | - | | | | vithin three years from |
| Storage | | Three years when sto | red at 21°C (70°F |), 50% relative hum | nidity, out of | dire | ct sunlight, in original |
| | packaging. | | | | | | |
| Properties | Temperature rang | e -80°C to 110°C | | | | | |
| | Temperature and | Dwell Time: 175° C, 2 | seconds Recomn | nended sealing | | | |
| Sealing | | Kseal, 4s2 ** Wasp, | | • | al, | | |
| | | (PHS) *** Agilent VII | | | , | | |
| | | Spec | ifications — | | | | |
| | NA CONTRACTOR OF THE CONTRACTO | | | . 112 . 1 | | | |
| Visual Description | Metallic with uppe | r surface gloss white. | Seal surface met | allic burnished toll | • | | |
| Physical Properties | Flexible, not easily | creased. Thicker tha | n IST-104. Tempe | rature Range: -80°0 | C to +110°C | | |
| | | ———— Test p | rocedures – | | | | |
| | <u> </u> | terials ability to resis | • . | | | | |
| Mass Loss | | of solution evaluated | after 30 cycles of | 3 step PCR Program | mme. Equipi | nent | :: ABI Thermocycler, |
| | Precision Balance | | | | | | |
| | | ce required to push a | standardised ne | edle through the n | naterial via | omp | pression measuring |
| Pierce | equipment. Result | • | | | | | |
| | | | | that less than 10N | is required t | o pie | erce the surface & access |
| | the wells. Equipme | ent Instron 3343 Tens | ometer. | | | | |
| 2 !! 1 | Determining the n Results N/A | naterials optical clari | ty by measuring t | the transmission of | f emissive d | ye th | rough the material. |
| Optical | The second secon | light transmission of | a sealed micropla | ate using a Fluroph | ore dve stoc | k sol | ution and a microplate |
| | | BMG Labtech - Flurc | | 200 dom 8 d 1 da 0 p 1 | 0.0 4,0 500 | | action and a mile opiate |
| | | terials permanence | of adhesion & its | ability to be remo | ved, via exte | nsio | n measuring equipment |
| Peel | Results: Pass | | | .0.6 | | | |
| | | ailure, Adhesive Tran stron 3343 Tensome | | r & Successful Peel | are measur | ed & | recorded after a 180° po |
| Low Town sustains | Confirming the ma | aterials ability to bre | ath. Results: Pass | <u> </u> | | | |
| Low Temperature | | | | | o a series of | test | s to substantiate seal |
| Seal Test | | nt: Laboratory Cold s | | | | | |
| | Evaluating the ma | terials resistance to | solvents (DMSO i | ised as an appressiv | ve standard) | Res | ults: Pass |
| Calvant | | | | | | | emperatures after which |
| Solvent | | ume loss are determ | | | | | |
| | | | | | | | |
| Plate Types, Sealing | Polypropylene (PF |), Polyethylene (PE), | Polystyrene (PS) | , Cyclo Olefin Copo | lymer (COC | and | non-binding coated |
| Temp. Time Settings | plates. | Dwall Time: 175°C 2 | | | | | |

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.

Temperature and Dwell Time: 175°C, 2 seconds.





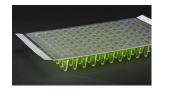
Pierce Seal Foil Super

| Description | A "stick to all" surface The film is peel-able | | seal with easy sea | ling surface identit | ication and | mod | erate solvent resistance. | |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | CE4 F0701 D | ** C+~! | I ob D oll TM | 1 Dell | C10: | | 70,000,000 | |
| | SF15078LR | ** Std | LabRoll™ | 1 Roll | 610m | Х | 78mm | |
| | SF15078SR | ** Sterile *** VII Std | LabRoll™ | 1 Roll | 610m | X | 78mm | |
| | SF15115LR | | LabRoll™ | 1 Roll | 500m | Х | 115mm | |
| Out to | SF15115SR | *** Sterile VII | LabRoll™ | 1 Roll | 500m | Х | 115mm | |
| Ordering | SF15078LS | * Std | LabSheet™ | 100 Sheets | 125mm | Χ | 78mm | |
| | SF15078SS | * Sterile | LabSheet™ | 100 Sheets | 125mm | Х | 78mm | |
| | SF15078TR | Trial | LabRoll™ | 1 Roll | 5m | Х | 78mm | |
| | SF15115TR | Trial | LabRoll™ | 1 Roll | 5m | X | 115mm 78mm | |
| | SF15078TS | Trial | LabSheet™ | 5 Sheets | 125mm | Х | 78mm | |
| Compatibility | Polypropylene (PP), | Polystyrene (PS) and | d Cyclo Olefin Cop | oolymer (COC) | | | | |
| Application | PCR, compound sto | rage, sample shippir | ng. | | | | | |
| | Store in a cool place | . Avoid direct expos | ure to sunlight. It | is recommended t | o use the se | als v | vithin three years from | |
| Storage | • | | U | | | | ct sunlight, in original | |
| | packaging. | • | . , | • | , · | | | |
| Properties | Temperature range | -80°C to 80°C | | | | | | |
| Troperaes | 7 7 7 7 7 | | | | | | | |
| | Temperature and D | well Time: 180° C, 2 | seconds Recomm | ended sealing | | | | |
| Sealing | Equipment: * Efly, k | seal, 4s2 ** Wasp, 1 | ThermoALPS300/3 | 3000, Kube, Flexise | al, | | | |
| | Chameleon, REMP (| PHS) *** Agilent VII | Plateloc, REMP (I | .HS/SHS) | | | | |
| | | Spec | ifications — | | | | | |
| Visual Description | Metallic reflective foil, with both sides appearing very similar. Ensure correct surface is being used for sealing. | | | | | | | |
| Physical Properties | Flexible foil, not eas | ily creased. Tempera | ature Range: -80° | C to 80°C. | | | | |
| | | | rocedures — | | | | | |
| Mass Loss | Confirming the mate Details: Mass loss of Precision Balance. | | | | nme. Equipr | nent | :: ABI Thermocycler, | |
| | Measuring the force | | standardised nee | edle through the m | naterial via d | omp | ression measuring | |
| | Measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required through the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push the force required to push a standardised needle through the material via compression measuring the force required to push the material via compression measuring the force required through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the material via compression measuring the force required to push a standardised needle through the push and the force required to push a standardised needle the | | | | | | | |
| Pierce | equipment. Results | | Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & acce | | | | | |
| Pierce | equipment. Results Details 5 tests run u | sing a standardised | | that less than 10N | is required t | o pie | | |
| Pierce | equipment. Results Details 5 tests run u the wells. Equipmer | sing a standardised t Instron 3343 Tenso | ometer. | | | | | |
| | equipment. Results Details 5 tests run u the wells. Equipmer | sing a standardised t Instron 3343 Tenso | ometer. | | | | rough the material. | |
| Pierce Optical | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A | sing a standardised it Instron 3343 Tenso | ometer. | he transmission of | emissive dy | e th | rough the material. | |
| | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A | sing a standardised of the Instron 3343 Tenson terials optical clarity of the Instrumental States of t | by by measuring to a sealed micropla | he transmission of | emissive dy | e th | | |
| | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A Details Record the li reader. Equipment | sing a standardised of Instron 3343 Tenson terials optical clarites optical clarites optical clarites of SMG Labtech - Fluro | ometer. by by measuring t a sealed micropla Star. | he transmission of te using a Fluroph | emissive dy | /e th k sol | rough the material. ution and a microplate | |
| Optical | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A Details Record the li reader. Equipment l | sing a standardised of Instron 3343 Tenson terials optical clarites optical clarites optical clarites of SMG Labtech - Fluro | ometer. by by measuring t a sealed micropla Star. | he transmission of te using a Fluroph | emissive dy | /e th k sol | rough the material. ution and a microplate | |
| | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A Details Record the li reader. Equipment Measuring the mat Results: Pass | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence of | ometer. by by measuring to a sealed microplay Star. f adhesion & its a | he transmission of te using a Fluroph ability to be remov | emissive dy ore dye stoc yed, via exte | ye th k sol | rough the material. ution and a microplate n measuring equipment | |
| Optical | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A Details Record the li reader. Equipment Measuring the mat Results: Pass | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Trans | ty by measuring to a sealed micropla Star. of adhesion & its a | he transmission of te using a Fluroph ability to be remov | emissive dy ore dye stoc yed, via exte | ye th k sol | rough the material. ution and a microplate n measuring equipment | |
| Optical Peel | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins | sing a standardised of Instron 3343 Tensor aterials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to brea | ty by measuring to a sealed micropla Star. of adhesion & its a sfer, Material tear er. | he transmission of te using a Fluroph ability to be remov | emissive dy ore dye stoc ved, via exte are measur | ye th k sol nsio ed & | rough the material. ution and a microplate n measuring equipment recorded after a 180° po | |
| Optical Peel Low Temperature | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins | sing a standardised of Instron 3343 Tensor aterials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to brea | ty by measuring to a sealed micropla Star. of adhesion & its a sfer, Material tear er. | he transmission of te using a Fluroph ability to be remov | emissive dy ore dye stoc ved, via exte are measur | ye th k sol nsio ed & | rough the material. ution and a microplate n measuring equipment | |
| Optical Peel | equipment. Results Details 5 tests run u the wells. Equipmer Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates | sing a standardised of Instron 3343 Tensor aterials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to brea | ty by measuring to a sealed micropla Star. of adhesion & its assert, Material teamer. ath. Results: Passified low temperate | he transmission of te using a Fluroph ability to be remov | emissive dy ore dye stoc ved, via exte are measur | ye th k sol nsio ed & | rough the material. ution and a microplate n measuring equipment recorded after a 180° po | |
| Optical Peel Low Temperature | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates integrity. Equipment | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to brea are sealed at specifit: Laboratory Cold states. | ty by measuring to a sealed micropla Star. of adhesion & its assert, Material tearer. ath. Results: Passerted low temperatorage unit. | he transmission of te using a Fluroph ability to be remov & Successful Peel ures & subjected t | emissive dy ore dye stoc ved, via exte are measure o a series of | ye th k sol nsio eed & | rough the material. ution and a microplate n measuring equipment recorded after a 180° po | |
| Optical Peel Low Temperature Seal Test | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates integrity. Equipment Evaluating the mate | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to breat are sealed at specifit: Laboratory Cold sterials resistance to serials resi | ty by measuring to a sealed micropla Star. of adhesion & its assert, Material tearer. ath. Results: Passeried low temperationage unit. | he transmission of te using a Fluropho ability to be remove & Successful Peel ures & subjected t sed as an aggressiv | emissive dy ore dye stoc ved, via exte are measure o a series of ve standard) | ye th k sol nsio ed & test: | rough the material. ution and a microplate n measuring equipment recorded after a 180° postors to substantiate seal | |
| Optical Peel Low Temperature | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates integrity. Equipment Evaluating the mat Details Sealed plate | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to breat are sealed at specifit: Laboratory Cold starting is subjected to a high starting and subjected to a high serials ability to a high subjected to a high serials resistance to starting in the subjected to a high serials resistance to a high serials resistance to a significant serials resistance to a high serials resistanc | ometer. by by measuring to a sealed micropla Star. of adhesion & its assert, Material tearer. ath. Results: Passerted low temperate torage unit. solvents (DMSO up to concentration of the seales) | he transmission of te using a Fluropho ability to be remove & Successful Peel ures & subjected to sed as an aggression of DMSO for a time | emissive dy ore dye stoc ved, via exter are measure o a series of ve standard) | ye th k sol nsio ed & test: | rough the material. ution and a microplate n measuring equipment recorded after a 180° postorior to substantiate seal ults: Pass emperatures after which | |
| Optical Peel Low Temperature Seal Test | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates integrity. Equipment Evaluating the mate | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to breat are sealed at specifit: Laboratory Cold starting is subjected to a high starting and subjected to a high serials ability to a high subjected to a high serials resistance to starting in the subjected to a high serials resistance to a high serials resistance to a significant serials resistance to a high serials resistanc | ometer. by by measuring to a sealed micropla Star. of adhesion & its assert, Material tearer. ath. Results: Passerted low temperate torage unit. solvents (DMSO up to concentration of the seales) | he transmission of te using a Fluropho ability to be remove & Successful Peel ures & subjected to sed as an aggression of DMSO for a time | emissive dy ore dye stoc ved, via exter are measure o a series of ve standard) | re the k solution of the k sol | rough the material. ution and a microplate n measuring equipment recorded after a 180° postorior to substantiate seal ults: Pass emperatures after which | |
| Optical Peel Low Temperature Seal Test Solvent | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates integrity. Equipment Evaluating the mat Details Sealed plate | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence clure, Adhesive Transtron 3343 Tensomet erials ability to breat are sealed at specifit: Laboratory Cold starting is subjected to a high starting and subjected to a high serials ability to a high subjected to a high serials resistance to starting in the subjected to a high serials resistance to a | ometer. by by measuring to a sealed micropla Star. of adhesion & its assert, Material tearer. ath. Results: Passerted low temperate torage unit. solvents (DMSO up to concentration of the seales) | he transmission of te using a Fluropho ability to be remove & Successful Peel ures & subjected to sed as an aggression of DMSO for a time | emissive dy ore dye stoc ved, via exter are measure o a series of ve standard) | re the k solution of the k sol | rough the material. ution and a microplate n measuring equipment recorded after a 180° p s to substantiate seal ults: Pass emperatures after which | |
| Optical Peel Low Temperature Seal Test | equipment. Results Details 5 tests run u the wells. Equipment Determining the ma Results N/A Details Record the li reader. Equipment l Measuring the mat Results: Pass Details Cohesive Fai test. Equipment Ins Confirming the mat Details: Microplates integrity. Equipment Evaluating the mat Details Sealed plate | sing a standardised of Instron 3343 Tenson terials optical clarity ght transmission of BMG Labtech - Fluro erials permanence of Iure, Adhesive Transtron 3343 Tensomet erials ability to brea are sealed at specific Laboratory Cold standard resistance to sis subjected to a higher loss are determined. | ty by measuring to a sealed micropla Star. of adhesion & its assert, Material tearer. ath. Results: Passified low temperationage unit. solvents (DMSO up to concentration of the concentration of t | he transmission of te using a Fluropho ability to be remove & Successful Peel ures & subjected t ures & an aggressive of DMSO for a time aboratory Cold sto | red, via externate of a series of estandard) eperiod at loarage unit, D | nsio test: Resi | rough the material. ution and a microplate n measuring equipment recorded after a 180° postorion in the second | |



Adhesive Seals

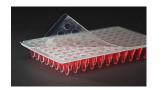




Quick Seal qPCR Crystal

| Description | An optically clear, DMSO resistant pressure sensitive seal which is suited for qPCR (96 or 384 well) fluorescence, crystallation, storage. A transparent non-tacky film which adheres only when pressure is applied. It is non-pierceable and peel-able. | | | | | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Ordering | SF21080LR ** Std LabRoll™ 1 Roll 100m x 80mm SF21080SR ** Sterile LabRoll™ 1 Roll 100m x 80mm SF21080LS * Std LabSheet™ 100 Sheets 135mm x 80mm SF21080SS * Sterile LabSheet™ 100 Sheets 135mm x 80mm SF21080TS Trial LabSheet™ 5 Sheets 135mm x 80mm | | | | | |
| Compatibility | Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC) | | | | | |
| Application | qPCR (94 or 384 well) and situations where fluorescence is experienced and optical clarity is required. | | | | | |
| Storage | Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging. | | | | | |
| Properties | Temperature range -40°C to 100°C | | | | | |
| Sealing | Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller. | | | | | |
| | Specifications — | | | | | |
| Visual Description | Clear plastic, reflective, glossy on the top. Very thin and light and doesn't crease easily. | | | | | |
| Physical Properties | Pressure sensitive adhesive tape, so the seal side doesn't feel sticky, mainly used for bonding materials to various substrates. Temperature Range: -40°C to +110°C. | | | | | |
| | Test procedures — | | | | | |
| Mass Loss | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. | | | | | |
| Pierce | Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. | | | | | |
| Optical | Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. | | | | | |
| Peel | Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. | | | | | |
| Low Temperature Seal Test | Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. | | | | | |
| Solvent | Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. | | | | | |
| Plate Types | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) | | | | | |





Quick Seal qOptic

| D | A transparent film | which is suitable fo | r qPCR. The seal is i | non-pierceable, is p | peel-able and | contains precise optical |
|------------------------------|------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|------------------|-------------------------------------------------------------|
| Description | windows. | | | | | |
| Ordering | SF22080LR SF22080SR SF22080LS SF22080SS SF22080TS | ** Std ** Sterile * Std * Sterile Trial | LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabSheet™ | 1 Roll 1 Roll 100 Sheets 100 Sheets 5 Sheets | 140mm | x 80mm x 80mm x 80mm x 80mm x 80mm |
| Compatibility | Polypropylene (PP |), Polystyrene (PS) | and Cyclo Olefin Co | polymer (COC) | | |
| Application | qPCR, fluorescence | e applications. | | | | |
| Storage | | | | | | lls within three years from lirect sunlight, in original |
| Properties | Temperature rang | e -20°C to 110°C | | | | |
| Sealing | Recommended sea | aling Equipment: K | APS 500/Seal-it 100 | /Manual Roller. | | |
| | | Sp | ecifications — | | | |
| Physical Properties | Temperature Rang | e: -20°C to +110°C | | | | |
| | | Test | procedures — | | | |
| Mass Loss | Confirming the ma Details: Mass loss of Precision Balance. | | | | mme. Equipm | ent: ABI Thermocycler, |
| Pierce | equipment. Result | s: N/A using a standardise | d needle, ensuring | | | pierce the surface & access |
| Optical | Results Pass | light transmission | of a sealed micropla | | | e through the material. solution and a microplate |
| Peel | Results: Pass Details Cohesive Fa | | ansfer, Material tea | | | d & recorded after a 180° peel |
| Low Temperature Seal Test | Details: Microplate | | | | to a series of t | ests to substantiate seal |
| Solvent | Details Sealed plat | e is subjected to a | o solvents (DMSO α high concentration mined. Equipment I | of DMSO for a time | e period at lov | v temperatures after which |





Quick Seal Gas Perm

| Description | pierce-able. | ioratea gas permet | able film. The seal is | periorated and pe | | | |
|------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------|-----------------|-------------------------------------------------------------|--|
| | SF24080LR SF24080SR | ** Std ** Sterile | LabRoll™ LabRoll™ | 1 Roll 1 Roll | 100m 100m | x 80mm x 80mm | |
| Ordering | SF24080LS | * Std | LabSheet™ | 100 Sheets | 135mm | x 80mm | |
| | SF24080SS SF24080TS | * Sterile Trial | LabSheet™ LabSheet™ | 100 Sheets 5 Sheets | 135mm 135mm | x 80mm x 80mm | |
| Compatibility | Polypropylene (PF |), Polystyrene (PS) | and Cyclo Olefin Co | polymer (COC) | | | |
| Application | Bacterial culture, | Eukaryotic cell culti | ure, | | | | |
| Storage | · · | | • | | | als within three years from direct sunlight, in original | |
| Properties | Temperature rang | e -20°C to 80°C | | | | | |
| Sealing | Recommended se | aling Equipment: K | APS 500/Seal-it 100 | /Manual Roller. | | | |
| | | Sp | ecifications — | | | | |
| Visual Description | Transparent, Perfo | rated EVA medical | Tape, Plastic, weav | e textured, with a c | cream coloure | ed Liner. | |
| Physical Properties | | , consisting of a tra ature range: -20°C t | | d, hypoallergenic o | coated, pressi | ure sensitive acrylate | |
| | | ——— Tes | t procedures — | | | | |
| Mass Loss | | of solutions evaluat | esist high temperatu ted after 30 Cycles of ion Balance. | | amme. | | |
| Pierce | equipment. Result Details 5 tests run | ts: Pass using a standardise | ed needle, ensuring | _ | | ompression measuring o pierce the surface & access | |
| | Determining the n | | | the transmission of | f emissive dv | e through the material. | |
| Optical | Results N/A Details Record the | | of a sealed micropla | | | solution and a microplate | |
| | Measuring the ma | aterials permanenc | ce of adhesion & its | ability to be remo | ved, via exter | nsion measuring equipment | |
| Peel | Details Cohesive F | ailure, Adhesive Tr Istron 3343 Tenson | | r & Successful Peel | are measure | d & recorded after a 180° pe | |
| Porosity Bendsten | _ | | esist low temperatu | | | | |
| | | | osity, Gurley 15 sec/ | | | | |
| Low Temperature Seal Test | Details: Microplat | | | | o a series of t | tests to substantiate seal | |
| Solvent | Details Sealed pla | Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. | | | | | |
| | | | | | | | |

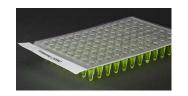




Quick Seal Micro

| Description | A strong transpare with a medium str | | nich is suitable for s | ample storage. The | seal is non- | piero | eable and peel-able |
|------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|------------------|-----------------------------------------------------|
| Ordering | SF25080LR SF25080SR SF25080LS SF25080SS SF25080TS | ** Std ** Sterile * Std * Sterile Trial | LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabSheet™ | 1 Roll 1 Roll 100 Sheets 100 Sheets 5 Sheets | 100m 100m 135mm 135mm 135mm | X X X X | 80mm 80mm 80mm 80mm 80mm |
| Compatibility | Polypropylene (PF | P), Polyethylene (PE |), Polystyrene (PS), | Cyclo Olefin Copoly | mer (COC) | | |
| Application | Sample Storage (a | queous), low cost o | over for application | ı like centrifugatior | 1. | | |
| Storage | | | | | | | vithin three years from ct sunlight, in original |
| Properties | Temperature rang | e -20°C to 80°C | | | | | |
| Sealing | Recommended se | aling Equipment: K | APS 500/Seal-it 100 | /Manual Roller. | | | |
| | | Sp | ecifications — | | | | |
| Visual Description | Opaque, Thin, Plas | tic material. | | | | | |
| Physical Properties | Polypropylene – P | P – Top Coated, Glo | oss Clear TC PP | | | | |
| | | Tes | t procedures — | | | | |
| Mass Loss | | | sist high temperatured after 30 cycles of | | mme. Equipr | nent | : ABI Thermocycler, |
| Pierce | equipment. Resul Details 5 tests run | Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. | | | | | |
| Optical | Results Pass Details Record the | Determining the materials optical clarity by measuring the transmission of emissive dye through the material. | | | | | |
| Peel | Results: Pass Details Cohesive F | Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peetest. Equipment Instron 3343 Tensometer. | | | | | |
| Low Temperature Seal Test | Details: Microplat | | • | | o a series of | test | s to substantiate seal |
| Solvent | Details Sealed pla | te is subjected to a | o solvents (DMSO ι high concentration mined. Equipment | of DMSO for a time | e period at lo | w te | emperatures after which |
| Plate Types | Polypropylene (P | -> - 1 - 1 - 1 - 1 | -) | | | | |





Quick Seal DMSO X

| | A transparent film which is DMSO resistant. This film is peel-able with crosscuts over the wells making it ideal for |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | auto samplers. It automatically cleans tips on extraction. Re-sealing onto the existing seal is permissible. |
| | |
| | SF26080LS * Std LabSheet™ 100 Sheets 140mm x 80mm |
| Ordering | SF26080LS * Std LabSheet™ 100 Sheets 140mm x 80mm SF26080SS * Sterile LabSheet™ 100 Sheets 140mm x 80mm |
| Ordering | SF26080TS Trial LabSheet™ 5 Sheets 140mm x 80mm |
| | |
| Compatibility | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |
| computibility | Totypropytene (11), Totyethylene (12), Totystyrene (13), eyelo olenn copolymer (coe) |
| | |
| Application | Sample access and retrieval for 96 well plates for use with auto samplers and sequencers. |
| | |
| | Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from |
| Storage | date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original |
| | packaging. |
| | |
| Properties – | Temperature range -40°C to 80°C |
| | |
| Spaling | Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller. |
| Sealing | Recommended sealing Equipment. RAFS 500/Seal-It 100/Wandar Roller. |
| | Specifications — |
| | Specifications |
| Visual Description | Clear plastic film with cross cuts over the wells. |
| | · · |
| Dhariaal Daamantiaa | T |
| Physical Properties | Temperature Range: -40°C to +80°C |
| | |
| | |
| | Test procedures |
| | |
| Mass Loss | Confirming the materials ability to resist high temperatures. Results: Pass |
| Mass Loss | |
| Mass Loss | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. |
| Mass Loss | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring |
| Mass Loss Pierce | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A |
| | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring |
| | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. |
| | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. |
| | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass |
| Pierce | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. |
| Pierce | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. |
| Pierce | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. |
| Pierce | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass |
| Pierce Optical | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel |
| Pierce Optical | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass |
| Pierce Optical Peel | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass |
| Pierce Optical | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal |
| Pierce Optical Peel Low Temperature | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass |
| Pierce Optical Peel Low Temperature | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. |
| Pierce Optical Peel Low Temperature Seal Test | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal |
| Pierce Optical Peel Low Temperature | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A |
| Pierce Optical Peel Low Temperature Seal Test | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which |
| Pierce Optical Peel Low Temperature Seal Test Solvent | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. |
| Pierce Optical Peel Low Temperature Seal Test | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar. Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which |





Quick Seal Foil PCR

| Description | An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminium foil with acrylic |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Description | adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue. |
| | |
| | |
| | SF27080LR ** Std LabRoll™ 1 Roll 200m x 80mm |
| | SF27080SR ** Sterile LabRoll™ 1 Roll 200m x 80mm |
| Ordering | SF27080LS * Std LabSheet™ 100 Sheets 135mm x 80mm |
| | SF27080SS * Sterile LabSheet™ 100 Sheets 135mm x 80mm |
| | SF27080TS Trial LabSheet™ 5 Sheets 135mm x 80mm |
| | |
| Compatibility | Deliverage James (DD), Delivethy James (DD), Delivethy agent (DD), Govela Coleffia Comply agent (CCC) |
| Compatibility | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |
| | |
| | DCD and cample storage |
| Application | PCR and sample storage. |
| | |
| | Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from |
| Storage | date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original |
| Storage | packaging. |
| | packaging. |
| | |
| Properties | Temperature range -40°C to 120°C |
| | |
| | |
| Sealing | Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller. |
| | |
| | Specifications — |
| | Specifications |
| Visual Description | Thin, Metallic, Reflective, White Liner. |
| Visual Description | Tilli, Metallic, Nellective, Willie Liller. |
| | |
| Physical Properties | Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | materials quickly or at high temperature (180°C). Temperature Range: -40°C to +120°C. |
| | |
| | Test procedures |
| | Test procedures |
| | Confirming the materials ability to resist high temperatures. Results: Pass |
| Mass Loss | Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, |
| | Precision Balance. |
| | |
| | Measuring the force required to push a standardised needle through the material via compression measuring |
| Pierce | equipment. Results: Pass |
| | Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access |
| | the wells. Equipment Instron 3343 Tensometer. |
| | |
| | Determining the materials optical clarity by measuring the transmission of emissive dye through the material. |
| Optical | Results N/A |
| | Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate |
| | reader. Equipment BMG Labtech - FluroStar. |
| | |
| | Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. |
| Peel | Results: Pass |
| | Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel |
| | test. Equipment Instron 3343 Tensometer. |
| | Confirming the materials ability to breath. Results: Pass |
| Low Temperature | |
| Seal Test | Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal |
| | integrity. Equipment: Laboratory Cold storage unit. |
| | Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass |
| | Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which |
| Solvent | |
| | seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. |
| | |
| | |
| Plate Types | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |
|) | |

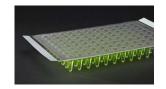




Quick Seal Foil PCR Ultra

| Description | An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminium foil with acrylic |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue. |
| | |
| | SF29080LR ** Std LabRoll™ 1 Roll 150m x 80mm |
| | SF29080SR ** Sterile LabRoll™ 1 Roll 150m x 80mm |
| Ordering | SF29080LS * Std LabSheet™ 100 Sheets 135mm x 80mm |
| Ordering | SF29080SS * Sterile LabSheet™ 100 Sheets 135mm x 80mm |
| | SF29080TS Trial LabSheet™ 5 Sheets 135mm x 80mm |
| | |
| | |
| Compatibility | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |
| | |
| | DCD and comple storage |
| Application | PCR and sample storage. |
| | |
| | Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from |
| Storage | date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original |
| - Contage | packaging. |
| | |
| | |
| Properties | Temperature range -40°C to 120°C |
| | |
| Cooling | Recommended cooling Fautisments VARC FOO/Seel it 100/Manual Reller |
| Sealing | Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller. |
| | |
| | Specifications — |
| | |
| Visual Description | Thin, Metallic, Reflective, White Liner. |
| | |
| Physical Properties | Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting |
| Thysical Troperties | materials quickly or at high temperature (180°C). Temperature Range: -40°C to +120°C. |
| | |
| | Test procedures |
| | rest procedures |
| | Confirming the materials ability to resist high temperatures. Results: Pass |
| Mass Loss | Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, |
| | Precision Balance. |
| | Measuring the force required to push a standardised needle through the material via compression measuring |
| | equipment. Results: N/A |
| Pierce | Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access |
| | the wells. Equipment Instron 3343 Tensometer. |
| | |
| | Determining the materials optical clarity by measuring the transmission of emissive dye through the material. |
| Optical | Results Pass |
| Optical | Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate |
| | reader. Equipment BMG Labtech - FluroStar. |
| | |
| | Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. |
| Peel | Results: Pass |
| | Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. |
| | test. Equipment instron 5545 rensonietel. |
| 1 | Confirming the materials ability to breath. Results: Pass |
| Low Temperature | Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal |
| Seal Test | integrity. Equipment: Laboratory Cold storage unit. |
| | <u> </u> |
| | Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A |
| Solvent | Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which |
| | seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. |
| | |
| | |
| Plate Types | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |
| | |

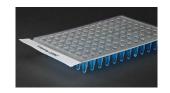




Quick Seal qPCR Ultra

| | An ontically clear | DMSO resistant pre | scure concitive coal | which is suited for | aPCP (96 or | 384well) fluorescence, |
|------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------|-------------------------------------------------------------|
| Description | crystallation, stora | ge. A transparent n | ontacky film which | adheres only wher | pressure is | applied. It is pierceable and environments. High Adhesion |
| Oudovino | SF30080LR SF30080SR SF30080LS | Standard Sterile Standard | LabRoll™ LabRoll™ LabSheet™ | 1 Roll 1 Roll 100 Sheets | 100m 100m 140mm | x 80mm x 80mm x 80mm |
| Ordering | SF30080SS SF30080TS | Sterile Trial | LabSheet™ LabSheet™ | 100 Sheets 5 Sheets | 140mm 140mm | x 80mm x 80mm |
| Compatibility | Polypropylene (PP | P), Polyethylene (PE |), Polystyrene (PS), | Cyclo Olefin Copoly | rmer (COC) | |
| Application | qPCR (94 or 384 w | rell) and situations v | where fluorescence | is experienced. | | |
| Storage | · · | | • | | | als within three years from direct sunlight, in original |
| Properties | Temperature rang | ge -40°C to 110°C | | | | |
| Sealing | Recommended se | aling Equipment: K | APS 500/Seal-it 100 | /Manual Roller. | | |
| | | Sp | ecifications — | | | |
| Visual Description | Clear plastic, refle | ctive, glossy on the | top. Very thin and l | ight and does not o | rease easily. | |
| Physical Properties | | adhesive tape, so terature range: -40°C | | ot feel sticky. Main | ly used for bo | onding materials to various |
| | | Tes | t procedures — | | | |
| Mass Loss | Details: Mass loss | | sist high temperatued after 30 cycles of on Balance. | | mme. | |
| Pierce | equipment. Resul Details 5 tests run | ts: N/A | ed needle, ensuring | | | compression measuring o pierce the surface & access |
| Optical | Results Pass Details Record the | | of a sealed micropla | | | ye through the material. k solution and a microplate |
| Peel | Results: Pass Details Cohesive F | | ansfer, Material tea | | | nsion measuring equipment. |
| Low Temperature Seal Test | Details: Microplat | | | | o a series of | tests to substantiate seal |
| Solvent | Details Sealed pla | te is subjected to a | o solvents (DMSO u high concentration mined. Equipment I | of DMSO for a time | e period at lo | w temperatures after which |
| Plate Types | Polypropylene (P | P), Polyethylene (P | E), Polystyrene (PS) | , Cyclo Olefin Cope | olymer (COC |) |





Quick Seal DMSO Standard

| Description | A transparent, optically clear, DMSO resistant, non-tacky film, which adheres only when pressure is applied. It is non-pierceable and peel-able. |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordering | SF31080LR Std LabRoll™ 1 Roll 100m x 80mm SF31080SR Sterile LabRoll™ 1 Roll 100m x 80mm SF31080LS * Std LabSheet™ 100 Sheets 140mm x 80mm SF31080SS * Sterile LabSheet™ 100 Sheets 140mm x 80 m SF31080TS Trial LabSheet™ 5 Sheets 140mm x 80 m |
| Compatibility | SF31080TS Trial LabSheet™ 5 Sheets 140mm x 8 mm Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |
| Application | Micro-plate sealing containing solvents including DMSO. |
| Storage | Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative hur dity, out of direct sunlight, in original packaging. |
| Properties | Temperature range -40°C to 80°C |
| Sealing | Recommended sealing Equipment: KAPS 500/Seal-it 100/May all Roller. |
| | Specifications — |
| Visual Description | A clear polypropylene DMSO resistant film, which is geel-able, but not pierceable. |
| Physical Properties | Temperature range: -40°C to +80°C |
| | Test pocedures — |
| Mass Loss | Confirming the materials ability to resist high temperatures. Results: Pass Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Procision Balance. |
| Pierce | Measuring the force require to push a standardised needle through the material via compression measuring equipment. Results: N/A Details 5 tests run using standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment astron 3343 Tensometer. |
| Optical | Determining the paterials optical clarity by measuring the transmission of emissive dye through the material. Results N/A Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equament BMG Labtech - FluroStar. |
| Peel | Measure ig the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Result: Pass Det its Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180°C pel test. Equipment Instron 3343 Tensometer. |
| Low Temperature Seal Test | Confirming the materials ability to breath. Results: Pass Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit. |
| Solvent | Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. |
| Plate Types | Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) |





Quick Seal Gas Perm Woven

| Description | The Seal is Porous, Gas Permeable and a barrier to solid contaminants. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordering | SF32080LR ** Std LabRoll™ 1 Roll 150m x 80mm SF32080SR ** Sterile LabRoll™ 1 Roll 150m x 80mm SF32080LS * Std LabSheet™ 100 Sheets 125mm x 80mm SF32080SS * Sterile LabSheet™ 100 Sheets 125mm x 80mm SF32080TR Trial LabRoll™ 1 Roll 5m x 80mm SF32080TS Trial LabSheet™ 5 Sheets 125mm x 80mm |
| Compatibility | Polypropylene (PP) Polystyrene (PS) |
| Application | Short term Incubation, agriculture and seed storage, Insect storage and Cell Culture. |
| Storage | Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging. |
| Properties | Temperature range -20°C to 80°C |
| Sealing | Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller. |
| | Specifications — |
| Visual Description | White Rayon Nonwoven Tape on Liner |
| Physical Properties | Temperature range: -40°C to +80°C |
| | Test procedures |
| Mass Loss | Confirming the materials ability to resist high temperatures. Results: N/A Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance. |
| Pierce | Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. |
| Optical | Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar |
| Peel | Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer. |
| Porosity Bendsten | Confirming the materials ability to breath. Results: Pass Details: Moisture Vapour Transmission—4200gms/m2/24hrs |
| Solvent | Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution. |
| Plate Types | Polypropylene (PP) Polystyrene (PS) |
| | |

