

Sealers and Cappers Foil, Sealing Films, Mats and Lids

Product Overview 2023

- prices upon request -

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Quick and Easy Sample Protection

Adhesive Seals

- Manual, cost-effective method of microplate sealing
- **11 types of seals** available including PCR seals
- Designed for long lifetime of reliable sealing
- Compatible with common types of microplates (PE, PP, PS)
- Available on roll (100 m x 80 mm, 200 m x 80 mm etc.) or packs of 100 sheets in different dimensions (130 mm x 80 mm, 140 mm x 80 mm etc.)



Cat. No.	Description	Size	Cs.
Adhesive Seal PCR			
SF20080LR	Adhesive Seal PCR	100 m x 80 mm	Roll
SF20080SR	Adhesive Seal PCR - sterile	100 m x 80 mm	Roll
SF20080LS	Adhesive Seal PCR	135 mm x 80 mm	100 Sheets
SF20080SS	Adhesive Seal PCR - sterile	135 mm x 80 mm	100 Sheets
SF20080TS	Adhesive Seal PCR	135 mm x 80 mm	5 Sheets
Adhesive Seal qPCR Crystal			
SF21080LR	Adhesive Seal qPCR Crystal	100 m x 80 mm	Roll
SF21080SR	Adhesive Seal qPCR Crystal - sterile	100 m x 80 mm	Roll
SF21080LS	Adhesive Seal qPCR Crystal	140 mm x 80 mm	100 Sheets
SF21080SS	Adhesive Seal qPCR Crystal- sterile	140 mm x 80 mm	100 Sheets
SF21080TS	Adhesive Seal qPCR Crystal	140 mm x 80 mm	5 Sheets
Adhesive Seal qPCR Crystal Ultra			
SF30080LR	Adhesive Seal qPCR Crystal Ultra	100 m x 80 mm	Roll
SF30080SR	Adhesive Seal qPCR Crystal Ultra - sterile	100 m x 80 mm	Roll
SF30080LS	Adhesive Seal qPCR Crystal Ultra	140 mm x 80 mm	100 Sheets
SF30080SS	Adhesive Seal qPCR Crystal Ultra - sterile	140 mm x 80 mm	100 Sheets
SF30080TS	Adhesive Seal qPCR Crystal Ultra	140 mm x 80 mm	5 Sheets
Adhesive Seal q Optic			
SF22080LR	Adhesive Seal q Optic	100 m x 80 mm	Roll
SF22080SR	Adhesive Seal q Optic - sterile	100 m x 80 mm	Roll
SF22080LS	Adhesive Seal q Optic	130 mm x 80 mm	100 Sheets
SF22080SS	Adhesive Seal q Optic - sterile	130 mm x 80 mm	100 Sheets
SF22080TS	Adhesive Seal q Optic	130 mm x 80 mm	5 Sheets
Adhesive Seal Gas Perm			
SF24080LR	Adhesive Seal Gas Perm	100 m x 80 mm	Roll
SF24080SR	Adhesive Seal Gas Perm - sterile	100 m x 80 mm	Roll
SF24080LS	Adhesive Seal Gas Perm	130 mm x 80 mm	100 Sheets
SF24080SS	Adhesive Seal Gas Perm - sterile	130 mm x 80 mm	100 Sheets
SF24080TS	Adhesive Seal Gas Perm	130 mm x 80 mm	5 Sheets

Cat. No.	Description	Size	Cs.
Adhesive Seal Micro			
SF25080LR	Adhesive Seal Micro	110 m x 80 mm	Roll
SF25080SR	Adhesive Seal Micro - sterile	110 m x 80 mm	Roll
SF25080LS	Adhesive Seal Micro	135 x 80 mm	100 Sheets
SF25080SS	Adhesive Seal Micro - sterile	135 x 80 mm	100 Sheets
SF25080TS	Adhesive Seal Micro	135 x 80 mm	5 Sheets
Adhesive Seal DMSO X Film			
SF26080LS	Adhesive Seal DMSO X Film	140 x 80 mm	100 Sheets
SF26080SS	Adhesive Seal DMSO X Film - sterile	140 x 80 mm	100 Sheets
SF26080TS	Adhesive Seal DMSO X Film	140 x 80 mm	5 Sheets
Adhesive Seal Foil PCR			
SF27080LR	Adhesive Seal Foil PCR	200 m x 80 mm	Roll
SF27080SR	Adhesive Seal Foil PCR - sterile	200 m x 80 mm	Roll
SF27080LS	Adhesive Seal Foil PCR	130 x 80 mm	100 Sheets
SF27080SS	Adhesive Seal Foil PCR - sterile	130 x 80 mm	100 Sheets
SF27080TS	Adhesive Seal Foil PCR	130 x 80 mm	5 Sheets
Adhesive Seal Foil PCR Ultra			
SF29080LR	Adhesive Seal Foil PCR Ultra	150 m x 80 mm	Roll
SF29080SR	Adhesive Seal Foil PCR Ultra - sterile	150 m x 80 mm	Roll
SF29080LS	Adhesive Seal Foil PCR Ultra	130 x 80 mm	100 Sheets
SF29080SS	Adhesive Seal Foil PCR Ultra - sterile	130 x 80 mm	100 Sheets
SF29080TS	Adhesive Seal Foil PCR Ultra	130 x 80 mm	5 Sheets
Adhesive Seal Gas Perm Woven			
SF32080LR	Adhesive Seal Gas Perm Woven	150 m x 80 mm	Roll
SF32080SR	Adhesive Seal Gas Perm Woven - sterile	150 m x 80 mm	Roll
SF32080LS	Adhesive Seal Gas Perm Woven	140 x 80 mm	100 sheets
SF32080SS	Adhesive Seal Gas Perm Woven - sterile	140 x 80 mm	100 sheets
SF32080TR	Adhesive Seal Gas Perm Woven	5 m x 80 mm	Roll
SF32080TS	Adhesive Seal Gas Perm Woven	140 x 80 mm	5 sheets



Krystal™ plates for luminescence and fluorescence



- Available with clear-, glass-, COP- and quartz bottom
- Very low autofluorescence
- Biocompatible adhesive at the bottom
- 24-, 96- and 384-well formats
- Available in black and white, sterile and with lid
- Also with customized barcodes
- Krystal™ High and Medium Bind Microplates for big molecules and proteins

Please contact us for more information on Porvair Sciences' wide range of microplates.

Films for ELISA, short-term storage and incubation

SealPlate®

also available as SealMate™ (p. 5),
RollMate™ and as MiniStrip™ (see below)

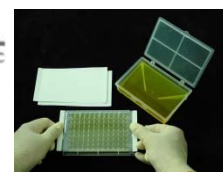
- 51 µm polyester foil with 27 µm acrylic Adhesive for general laboratory use
- Minimizes evaporation and prevents contamination between wells
- Secure sealing of all wells, eliminates "edge effects" in sensitive ELISA assays
- Can also be used for short-term storage and incubation
- Dimensions: 79.4 x 146.1 mm, including two removable end tabs



	Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
	Porvair						
	Excel						
229016	100-SEAL-PLT	ELISA/Incubation	-40 °C to +120 °C	no	no	PES	100
-	STR-SEAL-PLT	ELISA/Incubation	-40 °C to +120 °C	yes	no	PES	100
SealPlate® ColorTab™ - with colour coding (coloured dot) and white writing area on the removal strip							
-	SP-IDA-10	ELISA/Incubation	-40 °C to +120 °C	yes	no	PES	50
	Assorted colour						
-	SP-ID"X"-100	ELISA/Incubation	-40 °C to +120 °C	yes	no	PES	100
	single colour						
When ordering replace the "X" in the cat. no. to one of the available colours: blue, green, lavender, orange, red							

ThinSeal™

- 25 µm polyester foil with 25 µm acrylic Adhesive with good chemical resistance
- Minimizes evaporation and prevents contamination between wells
- Clear, pierceable with single-channel pipettes, needles or samples for sample recovery
- Dimensions: 79.4 x 141.0 mm, including two removable end tabs



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
100-THIN-PLT	ELISA/Incubation	-40 °C to +120 °C	no	marginal	PES	100
STR-THIN-PLT	ELISA/Incubation	-40 °C to +120 °C	yes	marginal	PES	100

MiniStrip™ for PCR plates, standard plates or strip tubes

- Designed to seal only two 8-well rows at a time
- Can also be used as a secondary film for previously pierced wells
- Supplied in convenient sheets of four rows
- NOTE: Spacing does not permit simultaneous application of more than 2 strips
- Available for:
 - **SealPlate®**: 50 µm PES film; non-pierceable; for immunoassays, incubation and storage; dimensions per strip: 19.1 x 82.6 mm
 - **ThermalSeal®**: 50 µm PP-film; non-pierceable; for thermal cycling applications; dimensions per strip: 19.0 x 76.2 mm
- Also available: 1 x 8 MiniStrips to seal only one 8-well row



Cat. No.	Description	Temperature range	sterile	pierceable	Material	Strips/Cs.
SP-2X8-50	Seal Plate®	-40 °C to +120 °C	no	no	PES	200
SPS-2X8-50	Seal Plate®	-40 °C to +120 °C	yes	no	PES	200
TS-2X8-50	Thermal Seal®	-40 °C to +120 °C	no	no	PP	200

RollMate™ for Manual Application

- Economical and efficient way to rapidly seal microplates
- Self-standing, non-slip supports hold pre-scored film roll in place
- Continuous backing liner can be torn off or fed directly into a waste basket
- Roll tension can be adjusted (e.g. loose, tight)
- Available for:
 - **SealPlate®**: 50 µm PES film; non-pierceable; for immunoassays, incubation and short-term storage; 500 plates/roll
 - **FoilSeal™**: 50 µm Aluminium foil; pierceable, excellent chemical resistance (e.g. DMSO), reduces evaporation, cross-contamination and spillage; for cold storage, standard PCR, light sensitive assays; 500 plates/roll



Cat. No.	Description	Temperature range	sterile	pierceable	Material	Cs.
SP2-RL-500	SealPlate® RollMate™	-40 °C to +120 °C	no	no	PES	1 roll
F2-RL-500	FoilSeal™ RollMate™	-80 °C to +120 °C	no	yes	Al	1 roll

SealMate™ system for Manual Application



- Convenient, easy and fast sealing method for microplates
- Includes moulded PP roll dispenser with hinged “clamshell” design and sealing films
- Dispenser also protects unused film
- Available for:
 - **SealPlate®** (colour code: green): 38 µm PES film; non-pierceable; for immunoassays, incubation and short-term storage; 100 plates/roll
 - **AeraSeal™** (colour code: red): 140 µm, hydrophobic porous rayon film; pierceable; for a steady exchange of air and CO₂; non-toxic; for tissue culture, bio-blocks, bacterial growth; 50 plates/roll

Cat. No.	Description	Temperature range	sterile	pierceable	Material	Cs.
SM-KIT-SP	SealPlate® Starter Kit SealMate™ Dispenser and 2 rolls	-40 °C to +120 °C	no	no	PES	1 kit
SM-KIT-SPS	SealPlate® Starter Kit SealMate™ Dispenser and 2 rolls	-40 °C to +120 °C	yes	no	PES	1 kit
RSMSP-2	SealPlate® Rolls, 2 rolls,	-40 °C to +120 °C	no	no	PES	1 kit
RSMSP-2-S	SealPlate® Rolls, 2 rolls	-40 °C to +120 °C	yes	no	PES	1 kit
SM-KIT-B	AeraSeal™ Starter Kit SealMate™ Dispenser and 2 rolls	-20 °C to +80 °C	no	yes	Rayon	1 kit
SM-KIT-BS	AeraSeal™ Starter Kit SealMate™ Dispenser and 2 rolls	-20 °C to +80 °C	yes	yes	Rayon	1 kit
RSMB-2	AeraSeal™ Rolls, 2 rolls	-20 °C to +80 °C	no	yes	Rayon	1 kit
RSMB-2-S	AeraSeal™ Rolls, 2 rolls	-20 °C to +80 °C	yes	yes	Rayon	1 kit

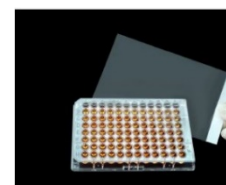
“General Purpose” seal for general laboratory use



- Certified DNase- and RNase-free; dimensions: 146.1 x 79.4 mm
- Has a good chemical resistance
- Provides a Very secure seal to minimize evaporation, but is slightly harder to remove than SealPlate® films
- Ideal for use with polypropylene plates
- Specially formulated Adhesive minimizes plate residue
- Ideal as a temporary seal while awaiting further processing

Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
GP-PP-100	General lab. use	-40 °C to +120 °C	no	no	PP	100
GPS-PP-100	General lab. use	-40 °C to +120 °C	yes	no	PP	100

ValueSeal™ for general laboratory use



- Most economical film for general laboratory use
- Provides a secure seal and is easy to remove
- Has a good clarity and is easy to handle
- Ideal as temporary seal while awaiting further processing
- Small dimensions (123.4 x 79.4 mm) and only single perforated end-tab

Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
SP-VS-100	General lab. use	-40 °C to +120 °C	no	no	PES	100

NEW!

“TiterSeal™” for general laboratory use, incubation and ELISA



- Minimizes evaporation and prevents well-to-well contamination and spillage
- Provides a secure seal and is easy to remove
- Rigid polyester film has a good clarity and is easy to handle
- Ideal as temporary seal while awaiting further processing
- Two end-tabs with perforations
- Eliminates the “edge effect” (greater evaporation in the outside plate wells) which can occur with plate lids

Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
TTS-100	General lab. use, ELISA	-40 °C to +120 °C	no	no	PES	100

PTFE sealing film from J.G. Finneran, patented



- 51 µm PTFE film, blue
- Clear, Adhesive-free mat prevents sample contamination through Adhesive
- Solvent-free Adhesive adheres to polypropylene, polystyrene and polycarbonate materials
- Compatible with aqueous solutions and organic Solvents
- Excellent chemical resistance, also against DMSO

Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
BST-9790	Automation	-80 °C to +120 °C	no	yes	PTFE	100

Standard plate seals

- Affordable standard plate seals for microplates and deep well blocks.
- Especially suited for storage at room temperature

Cat. No.	Description	Temperature range	Material	Cs.
25-030-00	self-Adhesive film, non-toxic	-20 °C to +70 °C	vinyl	100

Films for Cell and Tissue Culture



AeraSeal®

also available as SealMate™ (p. 5), and Roll-Seal™ (p. 10)

- 140 µm, hydrophobic, porous (pore size 10 µm to 50 µm) rayon film with medical-grade Adhesive
- Ideal for vaccine development
- For tissue culture plates, bio blocks and 96-well plates for cell culture or bacterial growth
- Air permeable, uniform exchange of air and CO₂ in all wells, non-toxic
- Protects against evaporation, cross-contamination and spillage
- Easily pierceable with pipet tips or pipets for sample recovery
- Dimensions: 142.9 x 82.6 mm, including two end tabs



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.	
Porvair -	Excel B-100	Cell Culture	-20 °C to +80 °C	no	yes	Rayon	100
229308	BS-25	Cell Culture	-20 °C to +80 °C	yes	yes	Rayon	50

Seals for Extreme Conditions



eXTRe™ FoilSeal™

- 48 µm aluminium foil with specially formulated 30 µm Adhesives to provide a strong seal for all plate materials
- Flexible foil allows visual verification of seal security
- Easily pierceable with single or multi-channel pipettes and needles from robots
- Ideal for PCR, long-term storage at low temperatures, light sensitive assay and robotics
- Excellent barrier properties minimize sample evaporation; Dimensions: 78.3 x 118.1 mm
- Large cut (XTR-FOILLG-100) is designed for greater coverage



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
XTR-FOIL-100	PCR	-80 °C to +120 °C	no	yes	Al	100
XTR-FOILLG-100	PCR	-80 °C to +120 °C	no	yes	Al	100

eXTRe™ and NEW! eXTRe™2 Seal



- 50 µm PES film with 42 µm strong Adhesive, certified DNase- and RNase-free
- Minimized evaporation and well-to-well contamination
- eXTRe™ is ideal for PCR, qPCR (real-time), robotics and sample storage
- eXTRe™ 2 Seal is ideal for PCR and robotics
- Standard cut (XTR-100/XTR2-100, 78.31 x 140.5 mm) is compatible with all plate types, especially raised-rim plates, PCR and deep well plates
- Large cut (XTR-LG-100/XTR2-LG-100, 81.28 x 143 mm) is designed for greater coverage and complete seal around edges of PCR and deep well plates



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
XTR-100	PCR, qPCR	-40 °C to +120 °C	no	no	PES	100
XTR-LG-100	PCR, qPCR	-40 °C to +120 °C	no	no	PES	100
XTR2-100	PCR	-20 °C to +120 °C	no	no	PES	100
XTR2-LG-100	PCR	-20 °C to +120 °C	no	no	PES	100

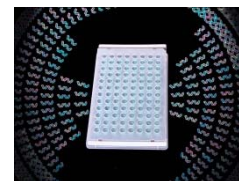
Sealing Foils for PCR



ThermalSeal®

also available as MiniStrips™ (see p. 4)

- 50 µm heat resistant PP-film with 25 µm acrylic Adhesive for thermal cycling applications
- Excellent barrier properties, non-pierceable
- All foils for PCR are certified DNase-, RNase-free
- Dimensions: 79.4 x 135.1 mm, including two end tabs



Porvair	Cat. No.	Excel	Application	Temperature range	sterile	pierceable	Material	Cs.
229303		100-THER-PLT	PCR	-40 °C to +120 °C	no	no	PP	100
229304		STR-THER-PLT	PCR	-40 °C to +120 °C	yes	no	PP	100

ThermalSeal A™ and ThermalSeal 2™



- 50 µm heat resistant PES-film with 41 µm acrylic Adhesive for thermal cycling applications
- Strong Adhesive for improved protection against evaporation and leakage
- No tendency to roll back during application and less tendency to tear during removal
- Thermal Seal A™ for raised-rim PCR plates and standard plates
- Thermal Seal 2™ for better adhesion and reduced evaporation
- Dimensions: 77.8 x 135.5 mm (TSA) or 79.4 x 139.7 mm (TS2), including two end tabs



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
TSA-100	PCR, Storage	-40 °C to +120 °C	no	no	PES	100
TS2-100	PCR	-40 °C to +120 °C	no	no	PES	100

EZcap™ Strips



- Economical and user-friendly alternative to strip caps
- Ideal for COVID-19 testing after swabs are inserted into a deep-well plate
- Precision cut to a smaller dimension to seal a single 8-well row of a 96-well plate or single 8-tube strips
- Available as:
 - **FilmStrips™**: 50 µm PP film; non-pierceable; reduces evaporation, cross-contamination and spillage storage; for incubation and general use; 8 FilmStrips on continuous backing liner per sheet
 - **PCR Film Strips™**: 50 µm PES film; non-pierceable; reduces evaporation, cross-contamination and spillage storage; for PCR, qPCR and storage; 8 FilmStrips on continuous backing liner per sheet
 - **FoilStrips™**: 50 µm Aluminium foil; pierceable; excellent chemical resistance (e.g. DMSO); reduces evaporation, cross-contamination and spillage; for PCR, storage and light sensitive assays; 6 FoilStrips per sheet



Cat. No.	Description	Temperature range	sterile	pierceable	Material	Strips/Cs.
GP-CS1X8-400	FilmStrips™	-40 °C to +120 °C	no	no	PP	400
GPS-CS1X8-400	FilmStrips™	-40 °C to +120 °C	yes	no	PP	400
US-CS1X8-400	PCR FilmStrips™	-40 °C to +120 °C	no	no	PES	400
F2-CS1X8-300	FoilStrips™	-80 °C to +120 °C	no	yes	Al	300

Films for Real-Time PCR, Storage and Crystallization



ThermalSeal RT™ and ThermalSeal RT2RR™

- 50 µm optical clear polyester film with 25 µm acrylic Adhesive
- "Brilliant" ultra-high optical clarity due to ultra-smooth, non-absorbing and non-fluorescing medical-grade Adhesive
- Plastic back liner instead of paper for smoothness and high optical clarity
- Certified DNase-, RNase-, and nucleic acid-free
- ThermalSeal RT2RR™ for plates with raised rim
- Dimensions: 79.4 x 121.9 mm or 77.8 x 118.1 mm



Porvair	Cat. No.	Excel	Application	Temperature range	sterile	pierceable	Material	Cs.
-	TS-RT2-100		RT PCR	-40 °C to +120 °C	no	no	PE	100
229521	TS-RT2RR-100		RT PCR	-40 °C to +120 °C	no	no	PE	100

ThermalSeal RTS™

also available as Roll-Seal™ (p. 10)



- 50 µm polyolefine foil with 50 µm encapsulated silicone Adhesive
- Encapsulated silicone Adhesive is non-tacky until pressed against sealing surface at which time it is released and forms the strongest available seal around each well
- Optical clear with low autofluorescence
- Chemically inert with exclusion of extreme pH-values, DMSO-resistant
- Certified DNase-, RNase-free
- Dimensions: 78.6 x 133.0 mm
- Ask for our products for protein crystallization from **Art Robbins Instruments!**



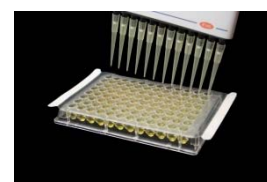
Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
TSS-RTQ-100	RT PCR, storage, protein crystallization	-80 °C to +105 °C	no	no	PO	100
TSS-RTQS-50	RT PCR, storage, protein crystallization	-80 °C to +105 °C	yes	no	PO	50

Films for Automation, also for ELISA applications



EZ-Pierce™

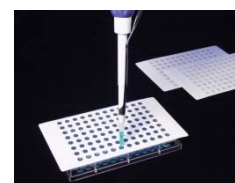
- 70 µm polyethylene foil with 25 µm acrylic Adhesive
- Easily pierceable with single or multi-channel pipettes as well as needles from robots
- Adhesive-free area above each well of 96-well plate
- Inert and chemically resistant
- Dimensions: 82.6 x 142.9 mm, including two removable end tabs



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
Porvair 229306	Excel EZP-100 Automation	-40 °C to +90 °C	no	yes	PE	100
-	EZPS-25 Automation	-40 °C to +90 °C	yes	yes	PE	50

ZoneFree™

- 70 µm Adhesive-free polyethylene top layer with a patterned inert white 25 µm polypropylene/Adhesive sublayer
- Easily pierceable with single or multi-channel pipettes as well as needles from robots
- Sample recovery without Adhesive fouling and minimized Adhesive contact
- Dimensions: 79.4 x 142.9 mm, including two removable end tabs, patented design



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
ZAF-PE-50	Automation	-40 °C to +90 °C	no	yes	PE	50

X-Pierce™

- 89 µm vinyl film with 18 µm Adhesive layer
- Precut "X" over each well allows sample access without coring or Adhesive fouling
- X-flaps return to original position after taking a sample
- Limited protection of samples after adding several solutions through pipetting
- For long-term protection a continuous film needs to be applied to the plate
- Dimensions: 79.4 x 145.5 mm, including two removable end tabs



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
Porvair 229496	Excel XP-100 Automation, Ultrasonication	-40 °C to +90 °C	no	yes	vinyl	100
229495	XPS-25 Automation, Ultrasonication	-40 °C to +90 °C	yes	yes	vinyl	50

Black film for Fluorescence and Photoprotection



AbsorbMax™

- 203 µm, **light absorbing** vinyl film with 37 µm acrylic Adhesive
- Top or bottom application of **black** microplates
- Reduces stray light and well-to-well crosstalk during fluorescence assays
- Protects light-sensitive samples during storage
- Dimensions: 76.2 x 114.3 mm; for plates with raised rim



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
Porvair 229520	Excel BK-50 Fluorescence, Photoprotection	-40 °C to +80 °C	no	no	vinyl	50

White film for Luminescence and Microscopy



BrightMax™

- 203 µm white **light-reflecting** vinyl film with 37 µm acrylic Adhesive
- For use with **white** microplates, top or bottom of plate
- Light reflecting properties maximize sensitivity of bio- and chemiluminescence assays
- Additional applications for mounting and storage of filter for microscopy such as ELISPOT
- Dimensions: 76.2 x 116.0 mm



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
WT-50	Luminescence, Microscopy	-40 °C to +80 °C	no	no	vinyl	50

Films for Chromatography



Rapid EPS for HPLC and LC/MS Applications

- PO film with synthetic Adhesive
- Easily pierceable to prevent needle clogging or damage
- No Adhesive remains on plate or needle
- Compatible with 96-, 384-, and 1536-well plates
- Excellent chemical resistance, also against DMSO, acetonitrile and methanol
- Dimensions: 80 x 122 mm



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
Rapid EPS	HPLC, LC/MS	-80 °C to +80 °C	no	yes	PO	100

Rapid Slit for Automation, SPE, HPLC, LC/MS and ADME

- 3 layered film: PET Film, silicone rubber, PET film
- Adhesive-free, pre-cut slits over wells of 96-well plate
- Self-closes instantly after needle penetration to prevent Solvent evaporation and cross-contamination
- After 22 hours, 95 % of 150 µl water will remain at 37 °C
- Dimensions: 80 x 122 mm



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
Rapid Slit	Automation, HPLC	-80 °C to +100 °C	no	yes	PET/Si	100

Aluminium Foils for PCR and Cold Storage



FoilSeal™

also available as RollMate™ (p. 4) and EZcap™ strips (p. 7)

- 2 mm aluminium foil removes easily without shredding or tearing
- Pierceable with a pipet tip or robotic sample
- Smaller dimensions and rounded corners result in no plate overhang for robotic applications
- Dimensions: 78.3 x 118.1 mm, including single end tab



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
F2-100	PCR, robotics	-20 °C to +120 °C	no	yes	Al	100
F2S-50	PCR, robotics	-20 °C to +120 °C	yes	yes	Al	50

AlumaSeal II™



- 36 µm soft, non-permeable aluminium foil with 26 µm medical-grade acrylic Adhesive
- Excellent barrier properties, virtually no evaporation or drying
- Easily pierceable with single or multi-channel pipettes and needles from robots
- Heat and cold resistant, impervious to light
- Certified DNase-, RNase-, and nucleic acid free
- Dimensions: 82.6 x 146.1 mm, including two full-width end tabs

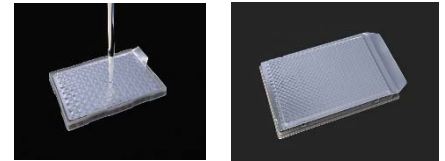


Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
AF-100	PCR, Cold storage	-80 °C to +120 °C	no	yes	Al	100
AFS-25	PCR, Cold storage	-80 °C to +120 °C	yes	yes	Al	50

AlumaSeal 96™ and AlumaSeal 384™



- 38 µm aluminium foil with 38 µm acrylic Adhesive for 96-well and 384-well plates
- Excellent barrier properties, virtually no sample evaporation or drying
- Easily pierceable with single or multi-channel pipettes and needles from robots
- Certified DNase-, RNase-, and nucleic acid-free
- AlumaSeal 96™ suitable for plates with raised rims
- Dimensions: 77.8 x 127.0 mm or 82.6 x 137.3 mm, including single end tab



	Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
Porvair	Excel						
229497	F-96-100	PCR	-80 °C to +120 °C	no	yes	Al	100
-	F-384-100	PCR	-80 °C to +120 °C	no	yes	Al	100

Roll-Seal™ for Automation



- Fast, efficient, high-throughput sealing of microplates, 2.5 to 5 sec/plate
- Provides reliable and efficient sealing at a lower cost per plate with minimal user intervention
- Film rolls are constructed on a 7.62 cm plastic core, which makes them compatible with most automatic sealers



- Available for:
 - **ThermalSeal RTS™**: 50 µm PO film with 50 µm inert silicone Adhesive; optically clear; non-pierceable; for RT-PCR, storage and crystallization; 540 plates/roll
 - **AlumaSeal® Foil**: 38 µm Aluminium foil with 38 µm acrylic Adhesive; pierceable; for PCR, long-term cold storage and sample recovery; 830 plates/roll
 - **AeraSeal™**: 140 µm, hydrophobic, porous rayon film; pierceable; for a steady exchange of air and CO₂; non-toxic; for tissue culture, bio-blocks, bacterial growth; 830 plates/roll

Cat. No.	Description	Temperature range	sterile	pierceable	Material
RRTS-79x65	ThermalSeal® RTS Film, 79 mm x 65 m	-70 °C to +100 °C	no	no	PO
RF-80x100	AlumaSeal® Foil, 80 mm x 100 m	-80 °C to +120 °C	no	yes	Al
RB-81x100	AeraSeal™, 81 mm x 100 m	-20 °C to + 80 °C	no	yes	Al

Sealing Accessories: Sealing Paddles and Roller



- Complete application of plate-sealing film with plate rollers or paddles
- Plate rollers assure a secure and uniform seal around all wells of a plate.
- Plate roller have a metal handle and are autoclavable.
- Paddles have two different surfaces, one for flat and one for raised rim plates
- Paddles are manufactured from high quality, recyclable LDPE

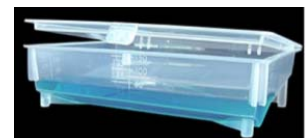


Cat. No.	Application	Cs.
PDL-5	Sealing Paddle for sealing films with two different surfaces	50
PDL-5PK	Sealing Paddle for sealing films with two different surfaces	5
RL-PLT-01	Plate Roller for secure and uniform seal	1

Texan™ Reagent Reservoirs



- Manufactured from reusable, autoclavable, environmentally-friendly polypropylene
- V-shaped reservoir with a total volume of 175 ml
- Graduations: 25 ml, 50 ml, 75 ml, 100 ml, 125 ml and 150 ml
- Reservoir can be opened with one hand due to an easy-to-open latch
- Reinforced base for firm position
- Greater clarity for improved visibility of content



Cat. No.	Description	sterile	Material	Cs.
RSV-0175-N10	Reagent Reservoir <u>without</u> lid	no	PP	100
RSV-0175-S05	Reagent Reservoir <u>without</u> lid	yes	PP	100
RSV-L175-N10	Reagent Reservoir <u>with</u> lid	no	PP	100
RSV-L175-N10PK	Reagent Reservoir <u>with</u> lid	no	PP	10
RSV-L175-S05	Reagent Reservoir <u>with</u> lid	yes	PP	100

Ultraseal™ Pro

- Automated sealer for microplates and tube racks
 - Ideal for PCR, qPCR and other assays and storage-based applications
 - Efficiently applies heat activated sealing films from a roll to a microplate or tube rack top surface
 - Cuts film to the desired length
 - Protects samples from evaporation and contamination
 - Suitable to use with shallow- and deep-well formats, tube racks, standard and customized plates made of PS, PP, PC, CoC or CoP
 - Accepts formats between 7 mm and 45 mm in height
 - Seals up to 6 plates per minute or 24 tubes simultaneously
 - Operator friendly and easy to programme
 - Can be integrated into lab automation via RS232
 - Pneumatic and electric device which requires a power supply and compressed air
 - Requires an air supply rated to min. 5.5 bar to max. 6.5 bar at 50 litres per min
 - Optional gas purge for greater protection of samples available
 - Optionally available with plate shuttle extension and for gas permeable foils
- Please contact us for further information.
- 110 / 220 VAC supply / multi-voltage
 - 630 x 195 x 450 mm (l x w x h), approx. 12 kg



Cat. No.	Description
500290	Ultraseal™ Pro , automated sealer for microplates and tubes

Ultraseal™ LITE

- Intuitive, semi-automatic heat sealer for tight sealing of polypropylene, polyethylene and polystyrene microplates (24-, 48-, 96- and 384-well) as well as glass tubes
- Auto-adjusting sensors for different plate heights (9 mm to 48 mm)
- Simple slide and seal operation, no gas input required
- Temperature range from ambient to 200 °C
- Sealing time per plate: ≤ 10 seconds
- User-friendly with built-in touch screen control panel to adjust temperature and sealing time
- Can be used with a wide range of sealing films and foils up to 200 °C (for seals, please see page 12)



Cat. No.	Description
500091	Ultraseal™ LITE , adaptable semi-automatic microplate sealer to seal 9 mm to 48 mm tall polypropylene, polyethylene and polystyrene microplates, and glass tubes

Thermal seals for Ultraseal™ Pro and Ultraseal™ LITE



Colour coded Seals - Sheets

porvair
sciences

- Easily distinguished by colour code
- The pre-sliced foils are marked to ensure the use with the right side up thus reducing the risk to damage the sensitive thermo head of the heat sealer
- Solvent resistant, including DMSO and TFA
- Dimensions: 78 mm x 125 mm
- Packages of 100 single sheets

Cat. No.	Material	Thickness	Temperature range	peelable	pierceable	Colour code	Cs.
229571	EVA laminated Al	70 µm	-80 to +80 °C	yes	no	red	100
229572	PP/PS lacquered Al	20 µm	-20 to +120 °C	no	yes	green	100
229573	Acryl lacquered Al	38 µm	-20 to +110 °C	yes	yes	blue	100
229574	Acryl lacquered Al	85 µm	-200 to +110 °C	no	no	black	100
5000090	EVA/PE	75 µm	-80 to +80 °C	no	yes	black	100
500010	EVA/PE	105 µm	-80 to +180 °C	yes	no	black	100

Clear Seals - Rolls

porvair
sciences

- Peelable, pierceable and strong non-peelable formats available
- Optically clear films
- For imaging, fluorescence, colorimetric assays and PCR/qPCR
- Compatible with instruments that use a heat pressurized lid
- Pierceable formats allows for automation with autosampler needles, capillary and tip based liquid handling systems
- Stronger seals form a permanent seal and have higher Solvent resistance
- Autoclavability and difficulty to pierce makes it ideal for transportation of hazardous substances

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF01078LR	500293	Clear Sealing Foil, 78 mm wide	yes	no	500 m
SF01078SR	500294	Clear Sealing Foil, 78 mm wide, sterile	yes	no	500 m
SF01115LR		Clear Sealing Foil, 115 mm wide	yes	no	350 m
SF01115SR		Clear Sealing Foil, 115 mm wide, sterile	yes	no	350 m
SF01078LS	500293-M	Clear Sealing Foil, 125 x 78 mm	yes	no	100 sheets
SF01078SS	500294-M	Clear Sealing Foil, 125 x 78 mm, sterile	yes	no	100 sheets
SF01078TR	500295SM	Clear Sealing Foil, 78 mm wide	yes	no	5 m sample
SF01115TR		Clear Sealing Foil, 115 mm wide	yes	no	5 m sample
SF01078TS		Clear Sealing Foil, 125 mm x 78 mm	yes	no	5 sheets
SF03078LR	500296	Clear Sealing Foil for Abi 3730, 78 mm wide	no	yes	610 m
SF03078SR	500297	Clear Sealing Foil for Abi 3730, 78 mm wide, sterile	no	yes	610 m
SF03115LR		Clear Sealing Foil for Abi 3730, 115 mm wide	no	yes	500 m
SF03115SR		Clear Sealing Foil for Abi 3730, 115 mm wide, sterile	no	yes	500 m
SF03078LS	500296-M	Clear Sealing Foil for Abi 3730, 125 x 78 mm	no	yes	100 sheets
SF03078SS	500297-M	Clear Sealing Foil for Abi 3730, 125 x 78 mm, sterile	no	yes	100 sheets
SF03078TR	500298SM	Clear Sealing Foil for Abi 3730, 78 mm wide	no	yes	5 m sample
SF03115TR		Clear Sealing Foil for Abi 3730, 115 mm wide	no	yes	5 m sample
SF03078TS		Clear Sealing Foil for Abi 3730, 125 x 78 mm	no	yes	5 sheets
SF02078LR	500299	Clear Seal Weld, 78 mm wide	no	no	610 m
SF02078SR	500300	Clear Seal Weld, 78 mm wide, sterile	no	no	610 m
SF02115LR		Clear Seal Weld, 115 mm wide	no	no	500 m
SF02115SR		Clear Seal Weld, 115 mm wide, sterile	no	no	500 m
SF02078LS	500299-M	Clear Seal Weld, 125 mm x 78 mm	no	no	100 sheets

(continued on page 13)

Clear Seals - Rolls (continued from page 12)

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF02078SS	500300-M	Clear Seal Weld, 125 x 78 mm, sterile	no	no	100 sheets
SF02078TR	500301SM	Clear Seal Weld, 78 mm wide	no	no	5 m sample
SF02115TR		Clear Seal Weld, 115 mm wide	no	no	5 m sample
SF02078TS		Clear Seal Weld, 125 x 78 mm	no	no	5 sheets
SF04078LR	500302	Peel Seal Foil, 78 mm wide	yes	no	610 m
SF04078SR	500303	Peel Seal Foil, 78 mm wide, sterile	yes	no	610 m
SF04115LR		Peel Seal Foil, 115 mm wide	yes	no	500 m
SF04115SR		Peel Seal Foil, 115 mm wide, sterile	yes	no	500 m
SF04078LS	500302-M	Peel Seal Foil, 125 x 78 mm	yes	no	100 sheets
SF04078SS	500303-M	Peel Seal Foil, 125 x 78 mm, sterile	yes	no	100 sheets
SF04078TR	500304SM	Peel Seal Foil, 78 mm wide	yes	no	5 m sample
SF04115TR		Peel Seal Foil, 115 mm wide	yes	no	5 m sample
SF04078TS		Peel Seal Foil, 125 x 78 mm	yes	no	5 sheets

Dura Range Heat Seals - Rolls



- Ideal for high temperature applications and room temperature storage
- Peelable, pierceable and solvent resistant (incl. DMSO) formats available
- Autoclavable
- Also heat seal aluminium foils available

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF14078LR	500305	Peel Seal Foil Super, 78 mm wide	yes	no	610 m
SF14078SR	500306	Peel Seal Foil Super, 78 mm wide, sterile	yes	no	610 m
SF14115LR		Peel Seal Foil Super, 115 mm wide	yes	no	500 m
SF14115SR		Peel Seal Foil Super, 115 mm wide, sterile	yes	no	500 m
SF14078LS	500305-M	Peel Seal Foil Super, 125 x 78 mm	yes	no	100 sheets
SF14078SS	500306-M	Peel Seal Foil Super, 125 x 78 mm, sterile	yes	no	100 sheets
SF14078TR	500307SM	Peel Seal Foil Super, 78 mm wide	yes	no	5 m sample
SF14115TR		Peel Seal Foil Super, 115 mm wide	yes	no	5 m sample
SF14078TS		Peel Seal Foil Super, 125 x 78 mm	yes	no	5 sheets
SF05078LR	500308	Peel Seal Foil, DMSO resistant, 78 mm wide	yes	no	500 m
SF05078SR	500309	Peel Seal Foil, DMSO resistant, 78 mm wide, sterile	yes	no	500 m
SF05115LR		Peel Seal Foil, DMSO resistant, 115 mm wide	yes	no	500 m
SF05115SR		Peel Seal Foil, DMSO resistant, 115 mm wide, sterile	yes	no	500 m
SF05078LS	500308-M	Peel Seal Foil, DMSO resistant, 125 x 78 mm	yes	no	100 sheets
SF05078SS	500309-M	Peel Seal Foil, DMSO resistant, 125 x 78 mm, sterile	yes	no	100 sheets
SF05078TR	500310SM	Peel Seal Foil, DMSO resistant, 78 mm wide	yes	no	5 m sample
SF05115TR		Peel Seal Foil, DMSO resistant, 115 mm wide	yes	no	5 m sample
SF05078TS		Peel Seal Foil, DMSO resistant, 125 x 78 mm	yes	no	5 sheets
SF06078LR	500311	Pierce Seal Foil, 78 mm wide	no	yes	610 m
SF06078SR	500312	Pierce Seal Foil, 78 mm wide, sterile	no	yes	610 m
SF06115LR		Pierce Seal Foil, 115 mm wide	no	yes	500 m
SF06115SR		Pierce Seal Foil, 115 mm wide, sterile	no	yes	500 m

(continued on page 14)

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF06078LS	500311-M	Pierce Seal Foil, 125 x 78 mm	no	yes	100 sheets
SF06078SS	500312-M	Pierce Seal Foil, 125 x 78 mm, sterile	no	yes	100 sheets
SF06078TR	500313SM	Pierce Seal Foil, 78 mm wide	no	yes	5 m sample
SF06115TR		Pierce Seal Foil, 115 mm wide	no	yes	5 m sample
SF06078TS		Pierce Seal Foil, 125 mm x 78 mm	no	yes	5 sheets
SF07078LR	500317	Pierce Seal Foil for PS plates, 78 mm wide	yes	yes	610 m
SF07078SR	500318	Pierce Seal Foil for PS plates, 78 mm wide, sterile	yes	yes	610 m
SF07115LR		Pierce Seal Foil for PS plates, 115 mm wide	yes	yes	500 m
SF07115SR		Pierce Seal Foil for PS plates, 15 mm wide, sterile	yes	yes	500 m
SF07078LS	500317-M	Pierce Seal Foil for PS plates, 125 x 78 mm	yes	yes	100 sheets
SF07078SS	500318-M	Pierce Seal Foil for PS plates, 125 x 78 mm, sterile	yes	yes	100 sheets
SF07078TR	500319SM	Pierce Seal Foil for PS plates, 78 mm wide	yes	yes	5 m sample
SF07115TR		Pierce Seal Foil for PS plates, 115 mm wide	yes	yes	5 m sample
SF07078TS		Pierce Seal Foil for PS plates, 125 x 78 mm	yes	yes	5 sheets

HD Heat Seal - Rolls



- Ideal for long-term storage and transportation
- High solvent resistance
- Wide seal integrity range from temperatures of -200 °C to 110 °C
- Impenetrable by pipette tips and liquid handling systems

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF08078LR	500320	Therm Seal Foil, 78 mm wide	yes	no	500 m
SF08078SR	500321	Therm Seal Foil, 78 mm wide, sterile	yes	no	500 m
SF8-115LR		Therm Seal Foil, 115 mm wide	yes	no	350 m
SF8-115SR		Therm Seal Foil, 115 mm wide, sterile	yes	no	350 m
SF8-078LS	500320-M	Therm Seal Foil, 125 x 78 mm	yes	no	100 sheets
SF8-078SS	500321-M	Therm Seal Foil, 125 x 78 mm, sterile	yes	no	100 sheets
SF8-078TR	500322SM	Therm Seal Foil, 78 mm wide	yes	no	5 m sample
SF08115TR		Therm Seal Foil, 115 mm wide	yes	no	5 m sample
SF08078TS		Therm Seal Foil, 125 x 78 mm	yes	no	5 sheets

Gas Permeable - Rolls



- “Bio Pierce and Peel” made from non-woven gas-permeable material which limits evaporation
- Ideal for cell culture
- Porous properties allow gas exchange to occur whilst providing an inert surface and no adhesive to interfere with the well contents
- “Gas Pierce and Peel” composed of paper with a grid lacquer coating to enhance porous and gas-permeable properties
- Peelable, pierceable and autoclavable formats available

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF10078LR	500323	Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide	yes	yes	200 m
SF10078SR	500324	Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide, sterile	yes	yes	200 m
SF10115LR		Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide	yes	yes	200 m

(continued on page 15)

Gas Permeable - Rolls (continued from page 14)

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF10115SR		Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide, sterile	yes	yes	200 m
SF10078LS	500323-M	Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm	yes	yes	100 sheets
SF10078SS	500324-M	Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm, sterile	yes	yes	100 sheets
SF10078TR	500325SM	Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide	yes	yes	5 m sample
SF10115TR		Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide	yes	yes	5 m sample
SF10078TS		Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm	yes	yes	5 sheets
SF13078LR	500326	" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 78 mm wide	yes	yes	610 m
SF13078SR	500327	" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 78 mm wide, sterile	yes	yes	610 m
SF13115LR		" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 115 mm wide	yes	yes	500 m
SF13115SR		" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 115 mm wide, sterile	yes	yes	500 m
SF13078LS	500326-M	" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 125 x 78 mm	yes	yes	100 sheets
SF13078SS	500327-M	" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 125 x 78 mm, sterile	yes	yes	100 sheets
SF13078TR	500328SM	" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 78 mm wide	yes	yes	5 m sample
SF13115TR		" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 115 mm wide	yes	yes	5 m sample
SF13078TS		" <u>Gas</u> Pierce and Peel" Gas-permeable grid paper for insect studies and seed storage, 125 x 78 mm	yes	yes	5 sheets
SF11078LR	500329	" <u>Bio</u> Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide	yes	no	610 m
SF11078SR	500330	" <u>Bio</u> Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide, sterile	yes	no	610 m
SF11115LR		" <u>Bio</u> Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide	yes	no	500 m
SF11115SR		" <u>Bio</u> Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide, sterile	yes	no	500 m
SF11078LS	500329-M	" <u>Bio</u> Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm	yes	no	100 sheets
SF11078SS	500330-M	" <u>Bio</u> Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm, sterile	yes	no	100 sheets

(continued on page 16)

New Cat. No.	Old Cat. No.	Description	peelable	pierceable	Cs.
SF11078TR	500331SM	"Bio Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 78 mm wide	yes	no	5 m sample
SF11115TR		"Bio Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 115 mm wide	yes	no	5 m sample
SF11078TS		"Bio Pierce and Peel" Gas-permeable non-woven film for cell culture, insect and seed storage, 125 x 78 mm	yes	no	5 sheets

NEW! Advanced Heat Seal

- Compatible with single sheet heat seal applicators
- Certified free of DNase-, RNase and Human DNA contamination (PCR certified)
- Provides excellent protection from evaporation
- Peelable foil does not tear during removal
- Compatible with PP and dual component (PC/PP) PCR plates
- Backing liner prevents sealing surface contamination (remove prior to sealing)
- Dimensions: 131.34 mm x 78.58 mm



Cat. No.	Application	Temperature range	sterile	pierceable	Material	Cs.
HS-FPL-100	Heat Sealing, PCR	-+4 °C to +94 °C	no	yes	Foil Laminate	100

GenTegra

Products for storage and transport of RNA and DNA
at room temperature and for extreme temperature changes
(-80 °C to +72 °C).

Please ask for our separate price list!



Sealing Mats

porvair
sciences

J.G.
Inneran
Associates, Inc.



Cat. No.	Description	pierceable	Material	Cs.
360014	Mat for 24-well (Porvair: 360013)	yes	San	100
360006	Mat for 48-well (Porvair: 360002, 360004); DNase-/RNase-free	yes	San	100
360098	Mat for 48-well solid plate with 5 ml and 7.5 ml	no	Si	100
219004	Mat for 96-well, square (Porvair: 219009, 219030, 219031), DNase-/RNase-free	yes	EVA	50
219019	Mat for 96-well, round (Porvair: 219025, 219026, 219027), DNase-/RNase-free; sterile	no	EVA	50
360010	Mat for 96-well, square (Porvair: 219006, 219008, 219009)	yes	San	100
219033	Mat for 96-well, square (Porvair: 219030, 219031)	no	PP	50
997005SW-96	Moulded green mat for 96-well, square	yes	Si	5
997075SW-96	Precut moulded green mat for 96-well, square	yes	SI	5
996050SW-96	Moulded grey PTFE-lined mat for 96-well, square	yes	PTFE/Si	5
996075SW-96	Precut moulded grey PTFE-lined mat for 96-well, square	yes	PTFE/Si	5
976050SW-96	Clear PTFE spray coated mat for 96-well, square	yes	PTFE/Si	5
976075SW-96	Pre-slit clear PTFE spray coated mat for 96-well, square	yes	PTFE/Si	5
976250SW-96	Ultra-low-bleed clear PTFE spray coated mat for 96-well, square	yes	PTFE/Si	5
976275SW-96	Pre-slit ultra-low-bleed clear PTFE spray coated mat for 96-well, square	yes	PTFE/Si	5
219036	Mat for 96-well, round (Porvair: 219002, 500284); DNase-/RNase-free	no	EVA	50
219042	Mat for 96-well, round (Porvair: 219012); DNase-/RNase-free; sterile	no	EVA	50
500179	Mat for 96-well, round with double O-ring (Porvair: 219020, 219021)	yes	Si	50
219044	Mat for 96-well, round (Porvair: 219002)	yes	EVA	50
997005MR-96	Moulded green mat for 96-well, round	yes	Si	5
997075MR-96	Precut moulded green mat for 96-well, round	yes	SI	5
996050MR-96	Moulded grey mat for 96-well, round	yes	PTFE/Si	5
996075MR-96	Precut moulded grey mat for 96-well, round	yes	PTFE/Si	5
9760507MR-96	Clear PTFE spray coated mat for 96-well, round (plug Ø 7 mm)	yes	PTFE/Si	5
9760757MR-96	Pre-slit clear PTFE spray coated mat for 96-well, round (plug Ø 7 mm)	yes	PTFE/Si	5
9762507MR-96	Ultra-low-bleed clear PTFE spray coated mat for 96-well, round (plug Ø 7 mm)	yes	PTFE/Si	5
9762757MR-96	Pre-slit ultra-low-bleed clear PTFE spray coated mat for 96-well, round (plug Ø 7 mm)	yes	PTFE/Si	5
9760508MR-96	Clear PTFE spray coated mat for 96-well, round (plug Ø 8 mm)	yes	PTFE/Si	5
9760758MR-96	Pre-slit clear PTFE spray coated mat for 96-well, round (plug Ø 8 mm)	yes	PTFE/Si	5
9762508MR-96	Ultra-low-bleed clear PTFE spray coated mat for 96-well, round (plug Ø 8 mm)	yes	PTFE/Si	5
9762758MR-96	Pre-slit ultra-low-bleed clear PTFE spray coated mat for 96-well, round (plug Ø 8 mm)	yes	PTFE/Si	5
9764508MR-96	Clear PTFE spray coated mat for 96-well, round (plug Ø 8 mm, short)	yes	PTFE/Si	5
9764758MR-96	Pre-slit clear PTFE spray coated mat for 96-well, round (plug Ø 8 mm, short)	yes	PTFE/Si	5
976050SW-384	Clear PTFE spray coated mat for 384-well, square	yes	PTFE/Si	5
976075SW-384	Pre-slit clear PTFE spray coated mat for 384-well, square	yes	PTFE/Si	5

Cap Mat Applicators - Equipment

MatCapper

- Produces an accurate and tight seal on shallow and deep well PP plates
- Needs minimal pressure for capping, reduces fatigue and Repetitive Strain Injury
- Special across plate pressure system ensures perfect seal time after time
- Also works with 2D barcoded glass tube racks and their closure mats
- Powder coated to resist chemical spillage
- Anti-slip base and fixing holes for securing to bench
- EVA or silicone mats are reusable with care (see page 11)



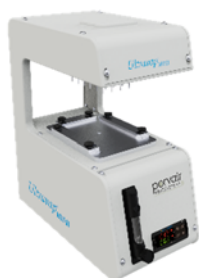
Cat. No.	Description
229078	MatCapper , applicator for storage and assay plates as well as tube racks

Lids

- Made of PS or PP to fit all plates



Cat. No.	Description	Material	Cs.
229125	Universal lid for all standard SBS format 96-well plates	PS	100
229225	Universal lid for all standard SBS format 96-well plates, sterile	PS	100
229126	Universal lid for all standard SBS format 96-well plates, black	PP	100



MiniVap™



MiniVap™ Gemini



Ultravap™ Levante



Ultravap™ Mistral

Evaporators

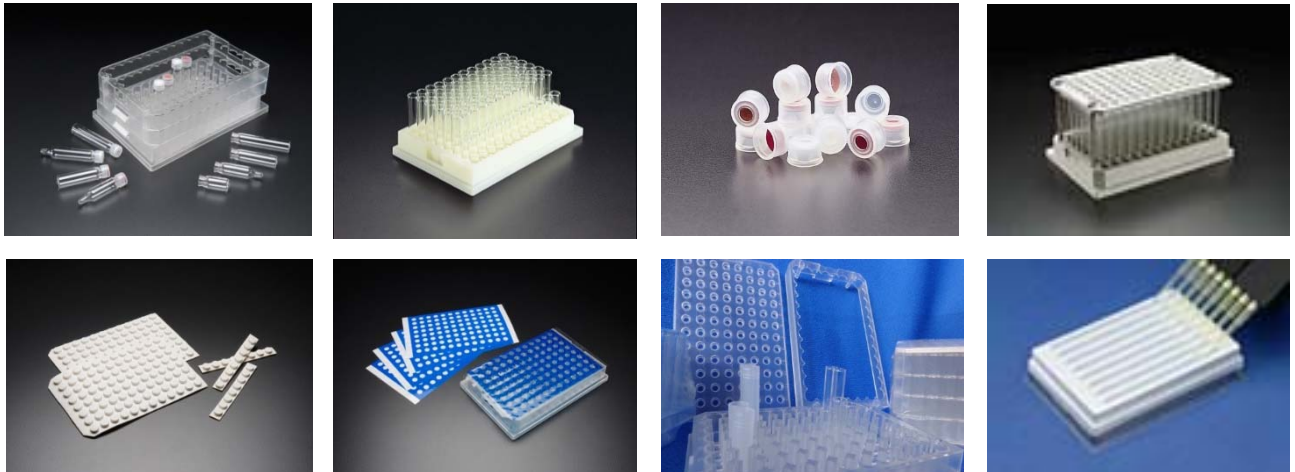
Manual and automatic operation

- Manual systems MiniVap™ and MiniVap™ Gemini
- Automatic evaporators Ultravap™ Levante and Ultravap™ Mistral
- Choice of 12-, 24-, 48-, 96-, and 384-well heads with straight or spiral needles
- Manual MiniVap™ Gemini with 2 individually temperature-regulated evaporation positions
- Automated evaporators are compatible with robotic liquid handlers
- For use with ANSI/SLAS standard plates
- For plates up to 55 mm, 80 mm, or even 100 mm high
- Also suitable for evaporation of HPLC samples in 1.5 ml HPLC vials using the 48-well head
- Units can be used with nitrogen or dry compressed air
- Faster drying times than other standard methods such as vacuum oven
- Please also ask for our separate product overview on further equipment from Porvair Sciences!

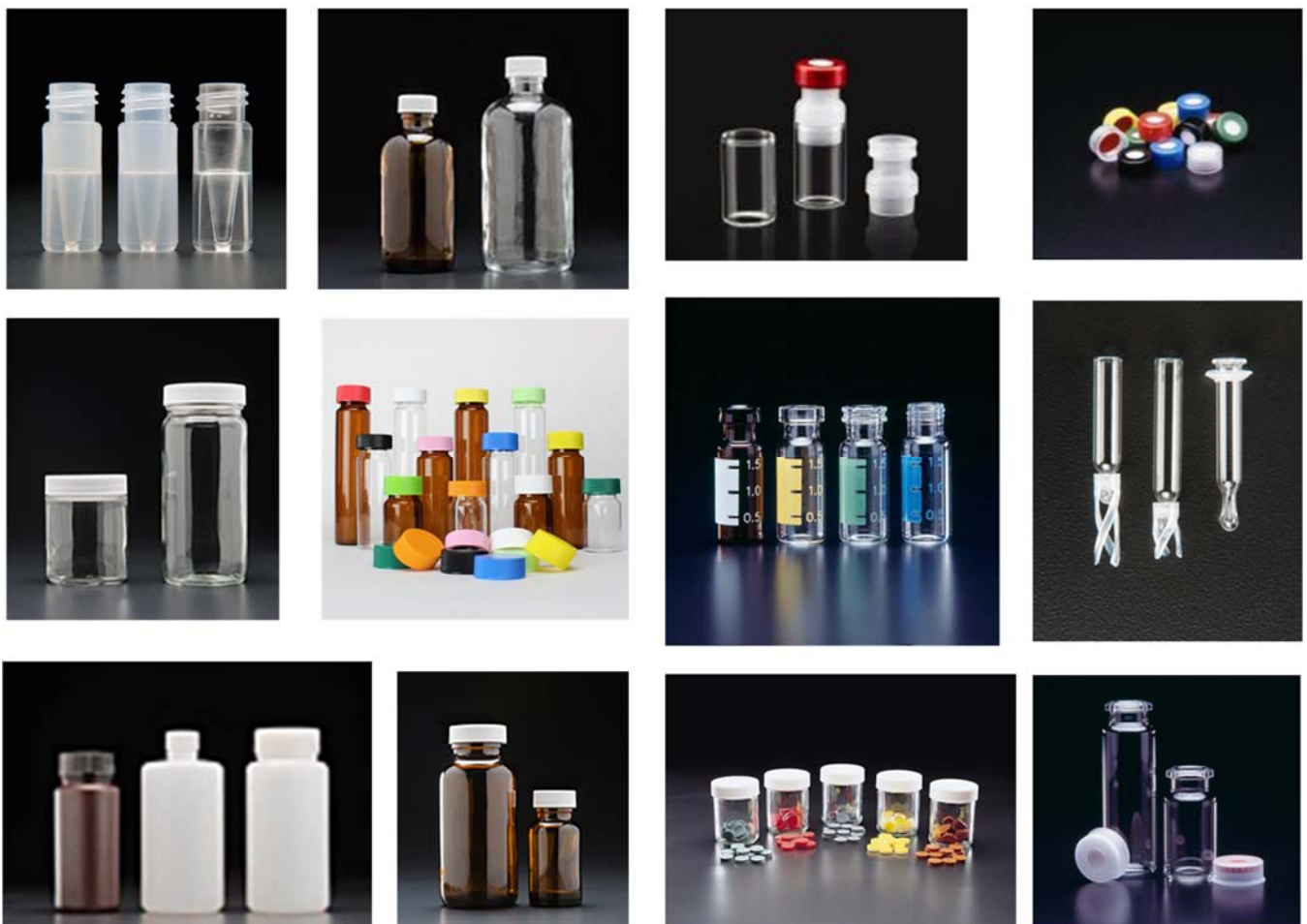
Also in our programme:

Glass and plastic products for Biotechnology, Environmental Analytic and Chromatography

- Aluminium 96-well Micro Plate System
- 96-well Multi-Tier™ System
- Topas Complement System
- Sealing Mats
- Vials from clear and amber glass or plastic
- Caps, Lids and Stoppers
- Septa
- Micro Inserts, and much more



Biotechnology



Environmental Analytic

Chromatography

Product Selection Guide - Applications

Product Name Catalog #	Functional Temp Range	Plate/Tube Type						Application					
		Non-Skirted / Raised-Rim	Flat-Top	Dual Component (Polycarbonate/ PCR & Tube Strip/ Wells, Single Plate Row)	PCR	qPCR	Short-Term Storage/ Incubation/ ELISA	Long-Term Storage	Cell / Tissue/ Bacterial Culture	Protein Crystallography	HPIC	Fluorescence/ Luminescence	Sonication
SealPlate® RollMate™ SP2-RL-500	-40°C to +120°C	*					*						
SealPlate® 100-SEAL-PLT	-40°C to +120°C	*					*						
SealPlate®, Sterile STR-SEAL-PLT	-40°C to +120°C	*					*						
1x8 MiniStrips™ GP-CS1X8-400	-40°C to +120°C	*		*			*						
1x8 MiniStrips™, Sterile GPS-CS1X8-400	-40°C to +120°C	*		*			*						
SealPlate® 2x8 MiniStrips™ SP-2x8-50	-40°C to +120°C	*		*			*						
SealPlate® 2x8 MiniStrips™, Sterile SPS-2x8-50	-40°C to +120°C	*		*			*						
SealPlate® ColorTab™, Assorted SP-IDA-10	-40°C to +120°C	*					*						
SealPlate® ColorTab™, Blue SP-IDB-100	-40°C to +120°C	*					*						
SealPlate® ColorTab™, Green SP-IDG-100	-40°C to +120°C	*					*						
SealPlate® ColorTab™, Lavender SP-IDL-100	-40°C to +120°C	*					*						
SealPlate® ColorTab™, Orange SP-IDO-100	-40°C to +120°C	*					*						
SealPlate® ColorTab™, Red SP-IDR-100	-40°C to +120°C	*					*						
ThinSeal™ 100-THIN-PLT	-40°C to +120°C	*					*						
ThinSeal™, Sterile STR-THIN-PLT	-40°C to +120°C	*					*						
General Purpose Film GP-PP-100	-40°C to +120°C	*					*						
General Purpose Film, Sterile GPS-PP-100	-40°C to +120°C	*					*						
ValueSeal™ SP-VS-100	-40°C to +120°C	*					*						
SealMate™ SealPlate® Kit SM-KIT-SP	-40°C to +120°C	*					*						
SealMate™ SealPlate® Rolls RSMSP-2	-40°C to +120°C	*					*						
SealMate™ SealPlate® Kit, Sterile SM-KIT-SPS	-40°C to +120°C	*					*						
SealMate™ SealPlate® Rolls, Sterile RSMSP-2-S	-40°C to +120°C	*					*						
SealMate™ AeraSeal™ Kit SM-KIT-B	-20°C to +80°C	*						*					
SealMate™ AeraSeal™ Rolls RSMB-2	-20°C to +80°C	*						*					
SealMate™ AeraSeal™ Kit, Sterile SM-KIT-BS	-20°C to +80°C	*						*					
SealMate™ AeraSeal™ Rolls, Sterile RSMB-2-S	-20°C to +80°C	*						*					

Product Selection Guide – Applications (continued)

Product Name Catalog #	Functional Temp Range	Plate/Tube Type						Application						
		Non-Skirted / Raised-Rim	Flat-Top	Dual Component (Polycarbonate/ polypropylene)	PCR 8-Tube Strip/ Wells / Single Plate Row	PCR	qPCR	Short-Term Storage/ Incubation/ ELISA	Long-Term Storage	Cell/ Tissue/ Bacterial Culture	Protein Crystallography	HPLC	Fluorescence/ Luminescence	Sonication
AeraSeal™ B-100	-20°C to +80°C		*							*				
AeraSeal™, Sterile BS-25	-20°C to +80°C		*							*				
eXTReme™ Seal XTR-100	-20°C to +120°C	*	*			*								
eXTReme™ Seal, Large XTR-LG-100	-20°C to +120°C		*			*								
ThermalSeal® A™ TSA-100	-40°C to +120°C					*								
ThermalSeal® 2™ TS2-100	-40°C to +120°C					*								
ThermalSeal® 100-THER-PLT	-40°C to +120°C					*								
ThermalSeal®, Sterile STR-THER-PLT	-40°C to +120°C					*								
EZcap™ 1x8 PCR FilmStrips™ US-CS1X8-400	-20°C to +120°C		*		*	*								
ThermalSeal® 2x8 MiniStrips™ TS-2X8-50	-40°C to +120°C					*								
ThermalSeal® RTS™ TSS-RTQ-100	-80°C to +105°C	*	*				*	*		*	*			
ThermalSeal® RTS™, Sterile TSS-RTQS-50	-80°C to +105°C	*	*				*	*		*	*			
ThermalSeal® RT2RR™ TS-RT2RR-100	-40°C to +120°C	*	*	*		*								
ThermalSeal® RT2™ TS-RT2-100	-40°C to +120°C		*	*		*								
X-Pierce™ XP-100	-40°C to +90°C		*								*		*	
X-Pierce™, Sterile XPS-25	-40°C to +90°C		*								*		*	
Zone-Free™ ZAF-PE-50	-40°C to +90°C		*								*			
AbsorbMax™ BK-50	-40°C to +80°C		*									*		
BrightMax™ WT-50	-40°C to +80°C		*									*		
FoilSeal™ F2-100	-20°C to +120°C	*	*			*								
FoilSeal™, Sterile F2S-50	-20°C to +120°C	*	*			*								
EZcap™ 1x8 PCR FoilStrips™ F2-CS1X8-300	-20°C to +120°C		*		*	*								
FoilSeal™ RollMate™ F2-RL-500	-20°C to +120°C	*	*			*								
AlumaSeal® II™ AF-100	-80°C to +120°C		*	*		*		*						
AlumaSeal® II™, Sterile AFS-25	-80°C to +120°C		*	*		*		*						
AlumaSeal® 96™ F-96-100	-80°C to +120°C	*				*		*						
AlumaSeal® 384™ F-384-100	-80°C to +120°C		*			*		*						
eXTReme™ FoilSeal™ XTR-FOIL-100	-80°C to +120°C	*	*					*						
eXTReme™ FoilSeal™, Large XTR-FOILLG-100	-80°C to +120°C		*					*						

Product Selection Guide - Specifications

Product Name Catalog #	Functional Temp Range	Product Attribute							Material Construction		
		Sterile	DNAse- & RNAse- Free	Chemically Resistant	Pierceable	Optically Clear	Transparent	Light Blocking	Breathable	Film / Foil Thickness	Adhesive Thickness
SealPlate® RollMate™ SP2-RL-500	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® 100-SEAL-PLT	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate®, Sterile STR-SEAL-PLT	-40°C to +120°C	*					*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
1x8 MiniStrips™ GP-CS1X8-400	-40°C to +120°C		*				*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
1x8 MiniStrips™, Sterile GPS-CS1X8-400	-40°C to +120°C	*	*				*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® 2x8 MiniStrips™ SP-2x8-50	-40°C to +120°C						*			Polypropylene 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® 2x8 MiniStrips™, Sterile SPS-2x8-50	-40°C to +120°C	*					*			Polypropylene 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® ColorTab™, Assorted SP-IDA-10	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® ColorTab™, Blue SP-IDB-100	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® ColorTab™, Green SP-IDG-100	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® ColorTab™, Lavender SP-IDL-100	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® ColorTab™, Orange SP-IDO-100	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealPlate® ColorTab™, Red SP-IDR-100	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
ThinSeal™ 100-THIN-PLT	-40°C to +120°C				*		*			Polyester 1.0mil / 25.4µm	Acrylic 0.95mil / 24.1µm
ThinSeal™, Sterile STR-THIN-PLT	-40°C to +120°C	*			*		*			Polyester 1.0mil / 25.4µm	Acrylic 0.95mil / 24.1µm
General Purpose Film GP-PP-100	-40°C to +120°C		*				*			Polypropylene 2.0mil / 50.8µm	Acrylic 1.0mil / 25.4µm
General Purpose Film, Sterile GPS-PP-100	-40°C to +120°C	*	*				*			Polypropylene 2.0mil / 50.8µm	Acrylic 1.0mil / 25.4µm
ValueSeal™ SP-VS-100	-40°C to +120°C						*			Polyester 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
SealMate™ SealPlate® Kit SM-KIT-SP	-40°C to +120°C						*			Polyester 1.5mil / 38.1µm	Acrylic 1.05mil / 26.7µm
SealMate™ SealPlate® Rolls RSMSP-2	-40°C to +120°C						*			Polyester 1.5mil / 38.1µm	Acrylic 1.05mil / 26.7µm
SealMate™ SealPlate® Kit, Sterile SM-KIT-SPS	-40°C to +120°C	*					*			Polyester 1.5mil / 38.1µm	Acrylic 1.05mil / 26.7µm
SealMate™ SealPlate® Rolls, Sterile RSMSP-2-S	-40°C to +120°C	*					*			Polyester 1.5mil / 38.1µm	Acrylic 1.05mil / 26.7µm
SealMate™ AeraSeal™ Kit SM-KIT-B	-20°C to +80°C				*				*	Rayon/Acrylic 5.5mil / 139.7µm	
SealMate™ AeraSeal™ Rolls RSMB-2	-20°C to +80°C				*				*	Rayon/Acrylic 5.5mil / 139.7µm	
SealMate™ AeraSeal™ Kit, Sterile SM-KIT-BS	-20°C to +80°C	*			*				*	Rayon/Acrylic 5.5mil / 139.7µm	
SealMate™ AeraSeal™ Rolls, Sterile RSMB-2-S	-20°C to +80°C	*			*				*	Rayon/Acrylic 5.5mil / 139.7µm	

Product Selection Guide – Specifications (continued)

Product Name Catalog #	Functional Temp Range	Product Attribute							Material Construction	
		Sterile	DNase- & RNase- Free	Chemically Resistant	Pierceable	Optically Clear	Transparent	Light Blocking	Breathable	Film / Foil Thickness
AeraSeal™ B-100	-20°C to +80°C			*				*	Rayon / Acrylic 5.5mil / 139.7µm	
AeraSeal™, Sterile BS-25	-20°C to +80°C	*		*				*	Rayon / Acrylic 5.5mil / 139.7µm	
eXTReme™ Seal XTR-100	-20°C to +120°C		*				*		Polyester 2.0mil / 50.8µm	Acrylic 1.65mil / 41.9µm
eXTReme™ Seal, Large XTR-LG-100	-20°C to +120°C		*				*		Polyester 2.0mil / 50.8µm	Acrylic 1.65mil / 41.9µm
ThermalSeal® A™ TSA-100	-40°C to +120°C		*				*		Polyester 2.0mil / 50.8µm	Acrylic 1.65mil / 41.9µm
ThermalSeal® 2™ TS2-100	-40°C to +120°C		*				*		Polyester 2.0mil / 50.8µm	Acrylic 1.65mil / 41.9µm
ThermalSeal® 100-THER-PLT	-40°C to +120°C		*				*		Polypropylene 2.0mil / 50.8µm	Acrylic 0.95mil / 24.1µm
ThermalSeal®, Sterile STR-THER-PLT	-40°C to +120°C	*	*				*		Polypropylene 2.0mil / 50.8µm	Acrylic 0.95mil / 24.1µm
EZcap™ 1x8 PCR FilmStrips™ US-CS1X8-400	-20°C to +120°C		*				*		Polypropylene 2.0mil / 50.8µm	Acrylic 1.65mil / 41.9µm
ThermalSeal® 2x8 MiniStrips™ TS-2X8-50	-40°C to +120°C		*				*		Polypropylene 2.0mil / 50.8µm	Acrylic 1.05mil / 26.7µm
ThermalSeal® RTS™ TSS-RTQ-100	-80°C to +105°C		*	*		*			Polyolefin 2.0mil / 50.8µm	Silicone 2.0mil / 50.8µm
ThermalSeal® RTS™, Sterile TSS-RTQS-50	-80°C to +105°C	*	*	*		*			Polyolefin 2.0mil / 50.8µm	Silicone 2.0mil / 50.8µm
ThermalSeal® RT2RR™ TS-RT2RR-100	-40°C to +120°C		*			*			Polyester 2.0mil / 50.8µm	Acrylic 1.15mil / 29.2µm
ThermalSeal® RT2™ TS-RT2-100	-40°C to +120°C		*			*			Polyester 2.0mil / 50.8µm	Acrylic 1.15mil / 29.2µm
X-Pierce™ XP-100	-40°C to +90°C				*		*		Vinyl 3.5mil / 88.9µm	Acrylic 0.7mil / 17.8µm
X-Pierce™, Sterile XPS-25	-40°C to +90°C	*			*		*		Vinyl 3.5mil / 88.9µm	Acrylic 0.7mil / 17.8µm
Zone-Free™ ZAF-PE-50	-40°C to +90°C				*		*		Polyethylene 2.75mil / 69.9µm	Acrylic 1.05mil / 26.7µm
AbsorbMax™ BK-50	-40°C to +80°C						*		Vinyl 8.0mil / 203.2µm	Acrylic 1.45mil / 36.8µm
BrightMax™ WT-50	-40°C to +80°C						*		Vinyl 8.0mil / 203.2µm	Acrylic 1.45mil / 36.8µm
FoilSeal™ F2-100	-20°C to +120°C		*		*		*		Aluminum Foil 2.0mil / 50.8µm	Acrylic 1.45mil / 36.8µm
FoilSeal™, Sterile F2S-50	-20°C to +120°C	*	*		*		*		Aluminum Foil 2.0mil / 50.8µm	Acrylic 1.45mil / 36.8µm
EZcap™ 1x8 PCR FoilStrips™ F2-CS1X8-300	-20°C to +120°C		*		*		*		Aluminum Foil 2.0mil / 50.8µm	Acrylic 1.45mil / 36.8µm
FoilSeal™ RollMate™ F2-RL-500	-20°C to +120°C		*		*		*		Aluminum Foil 2.0mil / 50.8µm	Acrylic 1.45mil / 36.8µm
AlumaSeal® II™ AF-100	-80°C to +120°C		*	*	*		*		Aluminum Foil 1.4mil / 35.6µm	Acrylic 1.1mil / 27.9µm
AlumaSeal® II™, Sterile AFS-25	-80°C to +120°C	*	*	*	*		*		Aluminum Foil 1.4mil / 35.6µm	Acrylic 1.1mil / 27.9µm
AlumaSeal® 96™ F-96-100	-80°C to +120°C		*		*		*		Aluminum Foil 1.5mil / 38.1µm	Acrylic 1.48mil / 37.6µm
AlumaSeal® 384™ F-384-100	-80°C to +120°C		*		*		*		Aluminum Foil 1.5mil / 38.1µm	Acrylic 1.48mil / 37.6µm
eXTReme™ FoilSeal™ XTR-FOIL-100	-80°C to +120°C		*	*	*		*		Aluminum Foil 1.9mil / 48.3µm	Acrylic 1.2mil / 30.5µm
eXTReme™ FoilSeal™, Large XTR-FOILLG-100	-80°C to +120°C		*	*	*		*		Aluminum Foil 1.9mil / 48.3µm	Acrylic 1.2mil / 30.5µm

→ Complete overview and detailed product information upon request.

Abbreviations:	Al:	Aluminium
	PE:	Polyethylene
	PET:	Polyethylene terephthalate
	PP:	Polypropylene
	PTFE:	Polytetrafluorethylene
	Si:	Silicon
	EVA:	Ethylene-Vinyl Acetate
	PES:	Polyether sulfone
	PO:	Poly olefine
	PS:	Polystyrene
	San:	Santoprene
	TPE:	Thermoplastic Elastomer