

VWR® Sealing film



Microplate Sealing films for Life Science

Microplate sealing films and foils are single-use adhesive plate covers that protect well contents from leakage, contamination, and evaporation during assay processing, incubation, or storage. Films and tapes are available in variety of materials, with specific applications, including PCR/qPCR, Cell culture, Elisa, Short/Long-term storage, fluorescence assays...

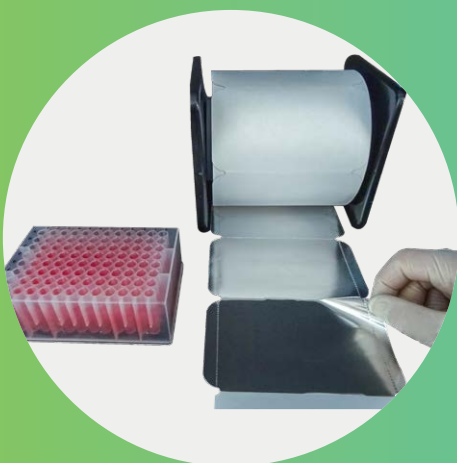


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Selection Guide by Product Application

Product Description	EU Catalog No.	Non-Skirted / Raised-Rim Microplates	Flat-Top Microplates	Dual Component (Polycarbonate/Polypropylene)	PCR 8-Tube Strips / Strip Wells / Single Plate Row	PCR	qPCR (Real-Time)	Short-Term Storage/Incubation/ELISA	Long-Term Storage	Cell/Tissue/Bacterial Culture	Protein Crystallography	HPLC	Fluorescence/Luminescence	Sonication
VWR® Heat-Resistant Films for Real-Time qPCR, Ultra-Clear Polyester, Raised Rim	391-1295	•	•	•			•							
VWR® Heat-Resistant Films for Real-Time qPCR, Ultra-Clear Polyester	391-1258		•	•			•							
VWR® Polyolefin Films with Silicone Adhesive for qPCR, Storage, and Protein Crystallization	391-0189	•	•				•		•		•	•		
VWR® Polyolefin Silicone Film	391-0624	•	•				•		•		•	•		
VWR® Heat-Resistant Strip Films for PCR	731-0321		•			•								
VWR® Heat-Resistant Polypropylene Film for Raised-Rim Plates	391-1294	•	•			•								
VWR® Ultimate Seal Films for PCR and Microplates	391-0622	•	•			•								
VWR® Heat-Resistant Films for PCR, Polypropylene	391-1254		•			•								
VWR® Heat-Resistant Films for PCR, Polypropylene	391-1255		•			•								
VWR® Ultimate Aluminum Seal	391-0621	•	•						•					
VWR® Aluminum Foils for PCR and Cold Storage	391-1256		•	•		•			•					
VWR® Aluminum Foils for PCR and Cold Storage	391-1257		•	•		•			•					
VWR® Aluminum Foils for 96- and 384-Well Plates	391-1281		•			•			•					
VWR® Aluminum Foils for 96- and 384-Well Plates	391-1282	•				•			•					
VWR® Cold Storage Adhesive Sealing Foil	391-1275		•						•					
VWR® Cold Storage Adhesive Sealing Foil	391-1296		•						•					
VWR® Precut Pierceable Vinyl Films for Robotics	391-1286		•									•		•
VWR® Precut Pierceable Vinyl Films for Robotics	391-1287		•									•		•
VWR® Clear-Zone Pierceable Films for Robotics	391-1264		•									•		
VWR® Pierceable Polyethylene Films	391-1263		•					•						
VWR® Pierceable Polyethylene Films	391-1277		•					•						
VWR® Thin Polyester Films for ELISA and General Incubation	731-0319		•					•						
VWR® Thin Polyester Films for ELISA and General Incubation	731-0320		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1252		•		•			•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1253		•		•			•						
VWR® Polyester Films for ELISA and Incubation	391-1250		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1251		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1267		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1268		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1269		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1270		•					•						
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1271		•					•						
VWR® Sealing Film Roll with Pre-Scored Sheets	391-0623		•					•						
VWR® Rayon Films for Biological Cultures	391-1261		•							•				
VWR® Rayon Films for Biological Cultures	391-1262		•							•				
VWR® Black Vinyl Films for Fluorescence and Photoprotection	391-1291		•										•	
VWR® White Vinyl Films for Luminescence and Microscopy	391-1293		•										•	
VWR® Adhesive Sealing Films in Roll Format for Automated Sealers	731-0306		•							•				
VWR® Adhesive Sealing Films in Roll Format for Automated Sealers	731-0307		•			•			•					
VWR® Adhesive Sealing Films in Roll Format for Automated Sealers	731-0308		•				•		•		•	•		
VWR® Adhesive Sealing Film ELISA/Incubation	391-0620		•					•						
Adhesive sealing film qPCR/storage	391-0644	•	•				•		•		•	•		
Adhesive sealing foil strips pierc. PCR	391-0637		•		•	•								
Adhesive sealing film strips PE PCR	391-0638		•		•	•								
Adhesive sealing strips PP elisa incub.	391-0639		•		•			•						
Adhesive seal. Film strips PE elisa ster	391-0640		•		•			•						
Adhesive sealing foil roll piercab. PCR	391-0641	•	•			•								
Adhesive sealing foil ALU storage large	391-0642		•						•					
Adhesive sealing film PCR/storage large	391-0643		•			•								

Selection Guide by Product Attribute

Product Description	EU Catalog No.	Functional Temperature Range	Sterile	Rnase/Dnase Free	Chemically Resistant	Pierceable	Optically Clear	Transparent	Light Blocking	Breathable	Film / Foil Thickness	Adhesive, Thickness
VWR® Heat-Resistant Films for Real-Time qPCR, Ultra-Clear Polyester, Raised Rim	391-1295	-40°C to +120°C		●			●				Polyester 50.8µm 2mil	Acrylic 29.2µm 1.15mil
VWR® Heat-Resistant Films for Real-Time qPCR, Ultra-Clear Polyester	391-1258	-40°C to +120°C		●			●				Polyester 50.8µm 2mil	Acrylic 29.2µm 1.15mil
VWR® Polyolefin Films with Silicone Adhesive for qPCR, Storage, and Protein Crystallization	391-0189	-80°C to +105°C		●	●		●				Polyolefin 50.8µm 2mil	Silicone 50.8µm 2mil
VWR® Polyolefin Silicone Film	391-0624	-80°C to +105°C	●	●	●		●				Polyolefin 50.8µm 2mil	Silicone 50.8µm 2mil
VWR® Heat-Resistant Strip Films for PCR	731-0321	-40°C to +120°C		●				●			Polypropylene 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Heat-Resistant Polypropylene Film for Raised-Rim Plates	391-1294	-40°C to +120°C		●				●			Polyester 50.8µm 2mil	Acrylic 41.9µm 1.65mil
VWR® Ultimate Seal Films for PCR and Microplates	391-0622	-20°C to +120°C		●				●			Polyester 50.8µm 2mil	Acrylic 41.9µm 1.65mil
VWR® Heat-Resistant Films for PCR, Polypropylene	391-1254	-40°C to +120°C		●				●			Polypropylene 50.8µm 2mil	Acrylic 24.1µm .95mil
VWR® Heat-Resistant Films for PCR, Polypropylene	391-1255	-40°C to +120°C		●				●			Polypropylene 50.8µm 2mil	Acrylic 24.1µm .95mil
VWR® Ultimate Aluminum Seal	391-0621	-80°C to +120°C		●	●	●				●	Aluminum Foil 48.3µm 1.9mil	Acrylic 30.5µm 1.2mil
VWR® Aluminum Foils for PCR and Cold Storage	391-1256	-80°C to +120°C		●	●	●			●		Aluminum foil 35.6µm 1.4mil	Acrylic 27.9µm 1.1mil
VWR® Aluminum Foils for PCR and Cold Storage	391-1257	-80°C to +120°C		●	●	●			●		Aluminum foil 35.6µm 1.4mil	Acrylic 27.9µm 1.1mil
VWR® Aluminum Foils for 96- and 384-Well Plates	391-1281	-80°C to +120°C		●		●			●		Aluminum foil 38.1µm 1.5mil	Acrylic 37.6µm 1.48mil
VWR® Aluminum Foils for 96- and 384-Well Plates	391-1282	-80°C to +120°C		●		●			●		Aluminum foil 38.1µm 1.5mil	Acrylic 37.6µm 1.48mil
VWR® Cold Storage Adhesive Sealing Foil	391-1275	-80°C to +120°C							●		Aluminum foil 50.8µm 2mil	Acrylic 50.8µm 2mil
VWR® Cold Storage Adhesive Sealing Foil	391-1296	-80°C to +120°C					●		●		Aluminum foil 50.8µm 2mil	Acrylic 50.8µm 2mil
VWR® Precut Pierceable Vinyl Films for Robotics	391-1286	-40°C to +90°C					●		●		Vinyl 88.9µm 3.5mil	Acrylic 17.8µm 0.7mil
VWR® Precut Pierceable Vinyl Films for Robotics	391-1287	-40°C to +90°C	●				●		●		Vinyl 88.9µm 3.5mil	Acrylic 17.8µm 0.7mil
VWR® Clear-Zone Pierceable Films for Robotics	391-1264	-40°C to +90°C					●		●		Polyethylene 69.9µm 2.75mil	Acrylic 26.7µm 1.05mil
VWR® Pierceable Polyethylene Films	391-1263	-40°C to +90°C				●	●		●		Polyethylene 70µm 2.75mil	Acrylic 24.1µm 0.95mil
VWR® Pierceable Polyethylene Films	391-1277	-40°C to +90°C				●	●		●		Polyethylene 70µm 2.75mil	Acrylic 24.1µm 0.95mil
VWR® Thin Polyester Films for ELISA and General Incubation	731-0319	-40°C to +120°C					●		●		Polyester 25.4µm 1mil	Acrylic 24.1µm 0.95mil
VWR® Thin Polyester Films for ELISA and General Incubation	731-0320	-40°C to +120°C					●		●		Polyester 25.4µm 1mil	Acrylic 24.1µm 0.95mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1252	-40°C to +120°C						●	●		Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1253	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Films for ELISA and Incubation	391-1250	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1251	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1267	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1268	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1269	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1270	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Polyester Sealing Films for ELISA and General Incubation	391-1271	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Sealing Film Roll with Pre-Scored Sheets	391-0623	-40°C to +120°C						●			Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
VWR® Rayon Films for Biological Cultures	391-1261	-20°C to +80°C					●			●	Rayon/Acrylic 139.7µm 5.5mil (Total)	
VWR® Rayon Films for Biological Cultures	391-1262	-20°C to +80°C					●			●		
VWR® Black Vinyl Films for Fluorescence and Photoprotection	391-1291	-40°C to +80°C							●		Vinyl 203.2µm 8mil	Acrylic 36.8µm 1.45mil
VWR® White Vinyl Films for Luminescence and Microscopy	391-1293	-40°C to +80°C							●		Vinyl 203.2µm 8mil	Acrylic 36.8µm 1.45mil
VWR® Adhesive Sealing Films in Roll Format for Automated Sealers	731-0306	-20°C to +80°C					●			●	Rayon/Acrylic 139.7µm 5.5mil (Total)	
VWR® Adhesive Sealing Films in Roll Format for Automated Sealers	731-0307	-80°C to +120°C		●		●			●		Aluminum foil 38.1µm 1.5mil	Acrylic 37.6µm 1.48mil
VWR® Adhesive Sealing Films in Roll Format for Automated Sealers	731-0308	-80°C to +105°C		●	●		●				Polyolefin 50.8µm 2mil	Silicone 50.8µm 2mil
VWR® Adhesive Sealing Film ELISA/Incubation	391-0620										Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
Adhesive sealing film qPCR/storage	391-0644	-80°C to +105°C		●	●		●				Polyolefin 50.8µm 2mil	Silicone 50.8µm 2mil
Adhesive sealing foil strips pierc. PCR	391-0637	-20°C to +120°C		●		●			●		Aluminum Foil 50.8µm 2mil	Acrylic 36.8µm 1.45mil
Adhesive sealing film strips PE PCR	391-0638	-20°C to +120°C		●					●		Polypropylene 50.8µm 2mil	Acrylic 41.9µm 1.65mil
Adhesive sealing strips PP elisa incub.	391-0639	-40°C to +120°C		●					●		Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
Adhesive seal. Film strips PE elisa ster	391-0640	-40°C to +120°C		●					●		Polyester 50.8µm 2mil	Acrylic 26.7µm 1.05mil
Adhesive sealing foil roll piercab. PCR	391-0641	-20°C to +120°C		●		●			●		Aluminum Foil 50.8µm 2mil	Acrylic 36.8µm 1.45mil
Adhesive sealing foil ALU storage large	391-0642	-80°C to +120°C		●	●	●			●		Aluminum Foil 48.3µm 1.9mil	Acrylic 30.5µm 1.2mil
Adhesive sealing film PCR/storage large	391-0643	-20°C to +120°C		●					●		Polyester 50.8µm 2mil	Acrylic 41.9µm 1.65mil

Adhesive seals minimize evaporation and prevent well to well cross contamination for PCR applications. Available in transparent polypropylene and polyester or easy to pierce aluminum foil.



ADHESIVE PCR FILM SEALS

These heat resistant 50 µm thick films are designed for thermal cycling applications. Polypropylene films are not pierceable.

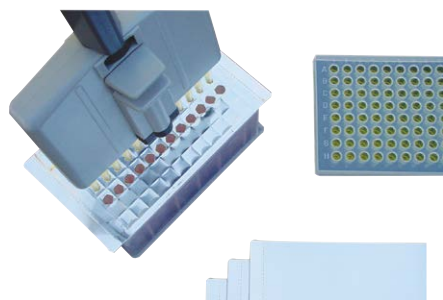
- Recommended for temperatures from –40 to +120 °C
- Certified free from DNase, RNase and nuclease

Each film LxD: 135,1x79,4 mm with sufficient sealing area for all PCR plates.

Length with end tabs removed: 123,1 mm

* stronger, thicker adhesive and cut to fit raised-rim plates

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Adhesive PCR film seals	Transparent	-	74,9	100	391-1254
Adhesive PCR film seals	Transparent	+	74,9	100	391-1255
Adhesive PCR film strips to seal 2x8 wells	Transparent	-	74,9	200	731-0321
Adhesive PCR film seals*	Transparent	-	92,7	100	391-1294



ADHESIVE PCR FOIL SEALS

These soft, non permeable 38 µm thick aluminium foils, (total thickness 63,5 µm) with strong medical grade adhesive, eliminate the need for heat sealing devices or mats during thermal cycling. Compared to other aluminium foils, these foils have less tendency to roll back on themselves when removing the backing paper, and fit well to the plate during application.

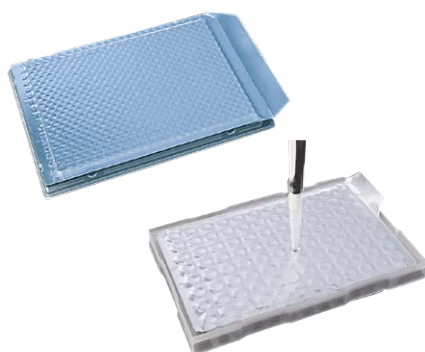
- Recommended for temperatures from –80 to +120 °C
- Easily pierceable with pipette tips and robotic probes
- Excellent vapour barrier, virtually no sample evaporation
- Certified free from DNase, RNase and nuclease

Each foil LxD: 142,9x82,6 mm with sufficient sealing area for all PCR plates.

Length with end tabs removed: 125,4 mm

Sterile product is packed in tamper-evident bags of 25/bag.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Aluminium foils	Light blocking	+	63,5	50	391-1257
Aluminium foils	Light blocking	-	63,5	100	391-1256



ALUMINIUM FOIL SEALS FOR PCR AND STORAGE (96- AND 384-WELL PLATES)

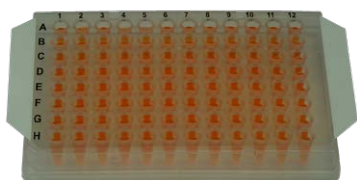
Aluminium foils, 38 µm thick, for use with 96- or 384-well plates. Fit inside the rim of raised rim plates. These foils have one partial-width end tab. Available non sterile only.

- Recommended for temperatures from –80 to +120 °C
- Certified free from DNase, RNase and nucleic acids

96 wells : Each foil LxD: 127,0x77,8 mm, including single 9,5 mm end tab.

384 wells : Each foil LxD: 137,3x82,6 mm, including single 13,5 mm end tab.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Aluminium foils for 96-well plates	Light blocking	-	75,7	100	391-1282
Aluminium foils for 384-well plates	Light blocking	-	75,7	100	391-1281



Adhesive sealing films for PCR and storage

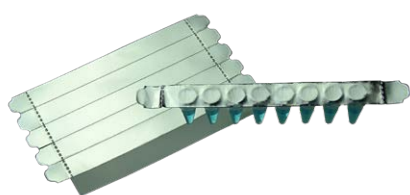
ADHESIVE SEALING FILMS FOR PCR AND STORAGE

Polyester seals feature a strong adhesive to minimize evaporation during PCR and storage applications.

- Ideal for PCR & storage
- Certified DNase- and RNase- free
- Temperature range is –40 to +120 °C
- Non-pierceable
- Minimizes evaporation

Removes easily without leaving adhesive residue.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing film	Transparent	-	92,7	100	391-0622
Sealing film, large	Transparent	-	92,7	100	391-0643



Aluminum sealing strips for 8-strip PCR tubes

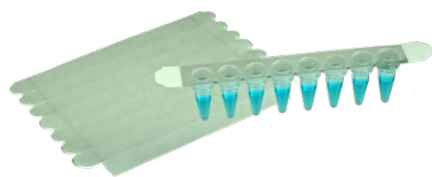
ALUMINUM SEALING STRIPS FOR 8-STRIP PCR TUBES

Easier to apply and remove as compared to standard molded PCR strip caps.

- Ideal for PCR
- User-friendly alternative to strip-caps; no sore thumbs and fingers guaranteed
- Seals a single 8-well row of a 96-well plate or a single PCR 8-tube strip
- Certified DNase- and RNase-free
- 2.0 mil pierceable foil
- Recommended temperature range from –20 to +120 °C

6 strips are precut on a continuous liner for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
1x8 sealing strips	Light blocking	-	87,6	300	391-0637



Adhesive sealing strips for 8-strip PCR tubes

ADHESIVE SEALING STRIPS FOR 8-STRIP PCR TUBES

Easier to apply and remove as compared to standard molded PCR strip caps.

- Ideal for PCR and storage
- Alternative to strip-caps; no sore thumbs and fingers guaranteed
- Seals a single 8-well row of a 96-well plate or a single PCR 8-tube strip
- Certified DNase- and RNase-free
- 2.0 mil transparent PE film
- Recommended temperature range from -20 to +120 °C

8 strips are precut on a continuous liner for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
1x8 sealing strips	Transparent	-	92,7	400	391-0638



Adhesive sealing foil roll

ALUMINIUM FOIL SEALS FOR PCR

Precut aluminum foil seals on a roll for PCR applications.
Supplied on a roll with holder for ease of use.

- Ideal for PCR
- Rapidly seal microplates; faster than applying single sheeted film
- 2 mil pierceable foil
- Certified DNase- and RNase-free
- Recommended temperature range from -20 to +120 °C

Self-standing, non-slip dispenser is supplied for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing foil, roll format	Light blocking	-	87,6	500	391-0641



SEALING FILM FOR AUTOMATION

Adhesive sealing film or foil rolls constructed on plastic cores, for use with high throughput automated microplate sealers.

- Continuous rolls - no splices
- Film or foil does not extend beyond edge of plastic core
- Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion

Sealing film for qPCR, sitting-drop protein crystallisation, HTS and cold storage

Clear polyolefin with ultra-strong, pressure-sensitive silicone adhesive for qPCR, sitting-drop protein crystallisation, HTS, storage and general incubation applications.

- DMSO resistant
- Nuclease-, nucleic acid- and pyrogen-free
- Provides as strong a bond to the plate as heat sealing films without the drawbacks of heat

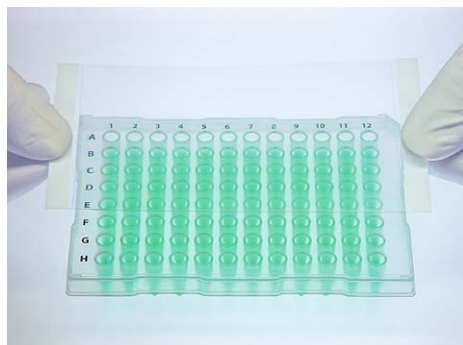
Sealing foil for PCR, HTS and cold storage

Pierceable aluminium foil with pressure-sensitive acrylic adhesive for PCR, HTS and cold storage.

- DMSO resistant
- Easily pierceable for sample recovery
- Nuclease-, nucleic acid- and pyrogen-free

Description	Optical property	Sterile	Temp. range (°C)	Thickness (µm)	Pk	Cat. No.
Sealing film, polyolefin, DNase- and RNase-free	Optically clear	-	-80...+105	101,6	1 Roll	731-0308
Sealing foil, aluminium	Light blocking	-	-80...+120	75,7	1 Roll	731-0307

Optically clear, low autofluorescence adhesive seals minimize evaporation and well to well cross contamination for qPCR applications. Available in polyester or polyolefin with non-tacky silicone adhesive.



SEALING FILMS, NON-TACKY, FOR QPCR, STORAGE AND CRYSTALLISATION

50 µm polyolefin films with 50 µm inert encapsulated silicone adhesive. Especially suited for qPCR, storage and protein crystallisation applications. The encapsulated silicone adhesive is non tacky until pressed against the sealing surface, at which time adhesive is released only in sealing areas to form the strongest available heat resistant seal around each well on the plate.

- High optical clarity, minimal to no autofluorescence
- Chemically inert; no extractables except at extreme pH; DMSO resistant for HTS
- Heat resistant, recommended for temperatures from –70 to +100 °C
- Certified free from DNase, RNase, and nucleic acid

Sized to fit within the edges of raised-rim 96-well plates (76,2×133,4 mm). Two end tabs assist in positioning the film on the plate.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing film	Optically clear	-	101,6	100	391-0189
Sealing film	Optically clear	+	101,6	50	391-0624
Sealing film	Optically clear	-	101,6	25	391-0644



ULTRA-CLEAR FILMS FOR QPCR

Transparent polyester films with strong, non absorbing, non fluorescing, medical grade adhesive for superior performance in qPCR applications. Supplied non sterile.

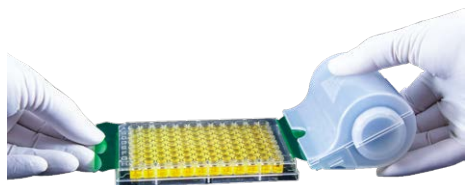
- Recommended for temperatures from –40 to +120 °C
- Ultra-high optical clarity
- Certified free from DNase, RNase and nuclease

Each film L×D: 142,9×79,4 mm

Length with end tabs removed: 121,9 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Optically-clear	Optically clear	-	80,0	100	391-1258
Optically-clear, for raised rim plates	Optically clear	-	80,0	100	391-1295

Breathable adhesive seals designed to facilitate uniform air and CO₂ exchange for cell, tissue and bacterial cultures. Available in single sheets or roll format for high throughput applications.



SEALING FILM FOR BIOLOGICAL CULTURES

Rayon film with medical grade adhesive. Hydrophobic, porous film in sheeted-roll format for sealing tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth.

- Recommended temperature range from –20 to +80 °C
- Total thickness 140 µm
- Prescored films separated by red colour bands for easy application
- Pierceable and breathable
- Pre-cut films on a roll

Each roll contains sufficient film to cover 50 plates.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Starter kit including dispenser and 2 film rolls	Light blocking	-	139,7	1 KIT	731-0313
Starter kit including dispenser and 2 film rolls	Light blocking	+	139,7	1 KIT	731-0314
Replacement rolls	Light blocking	-	139,7	2 Roll	731-0315
Replacement rolls	Light blocking	+	139,7	2 Roll	731-0316



BREATHABLE RAYON FILM SEALS FOR BIOLOGICAL CULTURES

A 114 µm thick hydrophobic porous film with medical-grade adhesive for tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth. These rayon films minimise cross-contamination, spillage and evaporation. They allow uniform air and CO₂ exchange for all wells, unlike plate lids which favour exchange for wells near plate edges. Sterile product is packaged in tamper evident bags of 25.

- Non cytotoxic, highly gas permeable
- Pierceable using pipette tip for sample recovery
- Recommended for temperatures from –20 to +80 °C

Each film LxD: 142,9×82,6 mm for standard size tissue culture plates.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Rayon films	Light blocking	-	139,7	100	391-1261
Rayon films	Light blocking	+	139,7	50	391-1262

Description	Pk	Cat. No.
Accessories		
Plate roller	1	391-1278

SEALING FILM FOR AUTOMATION

Adhesive sealing film rolls constructed on plastic cores, for use with high throughput automated microplate sealers.

- Continuous rolls - no splices
- Film does not extend beyond edge of plastic core
- Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion

Sealing film for cell and tissue culture

Breathable rayon films for cell and tissue culture.

- Non cytotoxic
- Highly gas permeable
- Easily pierceable for sample recovery

Description	Optical property	Sterile	Temp. range (°C)	Thickness (µm)	Pk	Cat. No.
Sealing film, rayon	Light blocking	-	–20...+80	139,7	1 Roll	731-0306

Transparent adhesive seals minimize evaporation and prevent well to well cross contamination for ELISA, incubation and short term storage. Available in single sheets, 1x8 or 2x8 strips and roll format for high throughput applications.



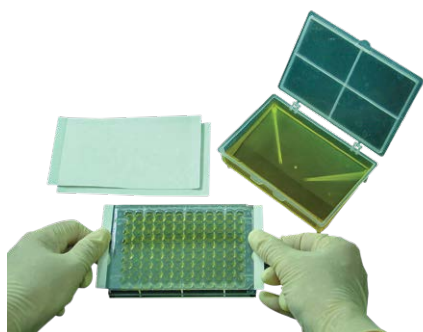
SEALING FILM FOR ELISA AND GENERAL INCUBATION

Polyester film with acrylic adhesive. These non pierceable films in sheeted-roll format are recommended for ELISA tests, general incubation and short-term storage.

- Recommended temperature range from -40 to +120 °C
- Total thickness 63 µm (film 38 µm, adhesive 25 µm)
- Prescored films separated by green colour bands for easy application
- Minimise evaporation and prevent contamination between wells
- Pre-cut films on a roll

Each roll contains sufficient film to cover 100 microplates.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Starter kit including dispenser and 2 film rolls	Transparent	-	63	1 KIT	731-0309
Starter kit including dispenser and 2 film rolls	Transparent	+	63	1 KIT	731-0310
Replacement rolls	Transparent	-	63	2 Roll	731-0311
Replacement rolls	Transparent	+	63	2 Roll	731-0312



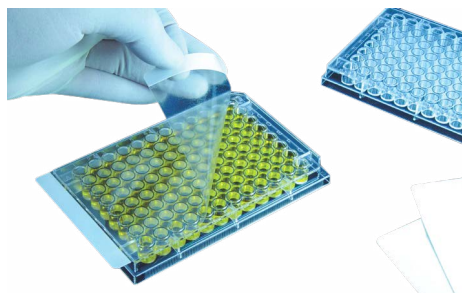
POLYESTER SEALING FILM

Polyester film, acrylic adhesive. These 50 µm thick polyester films minimise evaporation and prevent spillage and contamination between wells.

- Recommended temperature range from -40 to +120 °C
- Available sterile and non sterile
- Marginally pierceable by single channel pipette
- Applications: Short-term storage, incubation, ELISA

Each film LxD: 141,0x79,4 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Polyester sealing film	Transparent	-	49,5	100	731-0319
Polyester sealing film	Transparent	+	49,5	100	731-0320

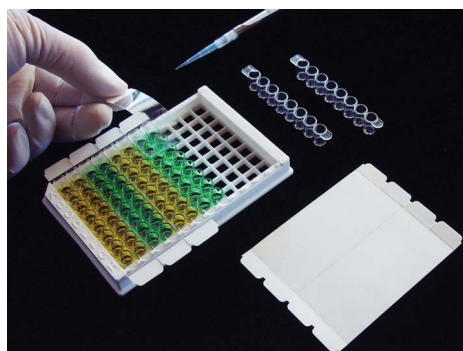


POLYESTER FILMS FOR ELISA AND GENERAL INCUBATION

These 50 µm thick polyester films provide secure sealing around every well, not just a cover, thus minimising evaporation, preventing spillage and well-to-well contamination, and eliminating 'edge effects' in sensitive ELISA assays. Polyester films can also be used with cell culture plates for short-term storage, incubation, and containment of biohazards.

- Functional temperature range from -40 to +120 °C
- Available sterile and non sterile
- Non pierceable

Description	LxD mm	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing films, polyester	123.4 x 79.4/133.4 x 79.4	Transparent	-	77,5	100	391-0620
Sealing film, polyester, roll format	121.54 x 79.4/130.8 x 79.4	Transparent	-	77,5	500	391-0623
Sealing films, polyester	125.1 x 79.4/146.1 x 79.4	Transparent	-	77,5	100	391-1250
Sealing films, polyester	-	Transparent	+	77,5	100	391-1251



POLYESTER 2x8 PLATE STRIP FILMS

Polyester 2x8 strip films are identical to polyester films in material and adhesive, but designed for sealing only one or two 8-well rows at a time on either strip-well plates or standard plates whenever rows must be selectively protected or accessed. Sterile product is packaged in tamper evident bags of 50/bag.

- Seal selectively, one or two rows at a time
- Can use as secondary seal over previously pierced films
- Recommended temperature range –40 to +120 °C

Each film LxD: 103,2x19,1 mm, including two removable positioning tabs; long dimension with tabs removed is 82,6 mm.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Polyester 2x8 films	Transparent	-	77,5	200	391-1252
Polyester 2x8 films	Transparent	+	77,5	200	391-1253



PIERCEABLE FILMS FOR ELISA AND GENERAL INCUBATION

Easily pierceable 70 µm thick PE films with acrylic adhesive allow direct sample recovery with single or multichannel pipettors and robotic probes.

- Functional temperature range from –40 to +90 °C

Each film LxD: 142,9x82,6 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
PE films, plain	Transparent	-	94,1	100	391-1263
PE films, plain	Transparent	+	94,1	50	391-1277

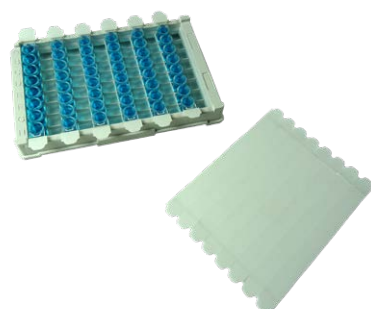


POLYESTER FILMS WITH COLOUR CODED MARKING AREAS

Polyester films including a colour dot and white writing area on each end tab for plate identification. End tabs with backing removed adhere to the ends of the plate and are perforated so they can be left in place even if the centre portion of the film is removed. Alternatively, one inscribed colour coded end tab can be removed and pasted in a laboratory notebook while the other remains on the plate.

- Choice of five colours for easy plate identification
- Applications: Short-term storage, incubation, ELISA
- Recommended temperature range –40 to +120 °C

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Films with purple dot	Transparent	-	77,5	100	391-1267
Films with orange dot	Transparent	-	77,5	100	391-1268
Films with red dot	Transparent	-	77,5	100	391-1269
Films with blue dot	Transparent	-	77,5	100	391-1270
Films with assorted dots	Transparent	-	77,5	50	391-1271



Adhesive sealing strips

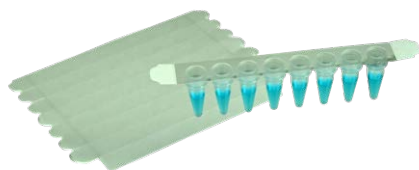
ADHESIVE SEALING STRIPS, PP, 1x8

1x8 adhesive sealing strips are ideal for use with 1x8 strip-well ELISA plates.

- Ideal for ELISA, incubation and general use
- Seals a single 8-well row of a 96-well plate or an ELISA strip-well plate
- 2.0 mil PP film
- Compatible with both polystyrene and polypropylene plates
- Certified DNase- and RNase-free
- Recommended temperature range from –40 to +120 °C

8 strips are precut on a continuous liner for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
1x8 sealing strips	Transparent	-	74,9	400	391-0639
1x8 sealing strips	Transparent	+	74,9	400	391-0640



Adhesive sealing strips for 8-strip PCR tubes

ADHESIVE SEALING STRIPS FOR 8-STRIP PCR TUBES

Easier to apply and remove as compared to standard molded PCR strip caps.

- Ideal for PCR and storage
- Alternative to strip-caps; no sore thumbs and fingers guaranteed
- Seals a single 8-well row of a 96-well plate or a single PCR 8-tube strip
- Certified DNase- and RNase-free
- 2.0 mil transparent PE film
- Recommended temperature range from –20 to +120 °C

8 strips are precut on a continuous liner for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
1x8 sealing strips	Transparent	-	92,7	400	391-0638



Adhesive sealing foil roll

ALUMINIUM FOIL SEALS FOR PCR AND STORAGE

Precut aluminum foil seals on a roll for PCR applications.

Supplied on a roll with holder for ease of use.

- Ideal for PCR and storage
- Rapidly seal microplates; faster than applying single sheeted film
- 2 mil pierceable foil
- Certified DNase- and RNase-free
- Recommended temperature range from –20 to +120 °C

Self-standing, non-slip dispenser is supplied for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing foil, roll format	Light blocking	-	87,6	500	391-0641



ADHESIVE PCR FILM SEALS

These heat resistant 50 µm thick films are designed for thermal cycling applications and Short Term Storage. Polypropylene films are not pierceable.

- Recommended for temperatures from –40 to +120 °C
- Certified free from DNase, RNase and nuclease

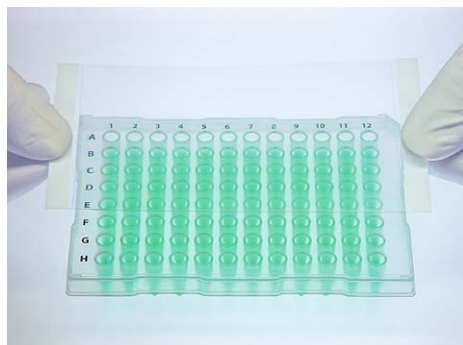
Each film LxD: 135,1x79,4 mm with sufficient sealing area for all PCR plates.

Length with end tabs removed: 123,1 mm

* stronger, thicker adhesive and cut to fit raised-rim plates

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Adhesive PCR film seals	Transparent	-	74,9	100	391-1254
Adhesive PCR film seals	Transparent	+	74,9	100	391-1255
Adhesive PCR film strips to seal 2x8 wells	Transparent	-	74,9	200	731-0321
Adhesive PCR film seals*	Transparent	-	92,7	100	391-1294

Chemical resistant adhesive seals prevent evaporation and well to well cross contamination for long-term cold storage. Available in easy to pierce aluminum foil and optically clear polyolefin.



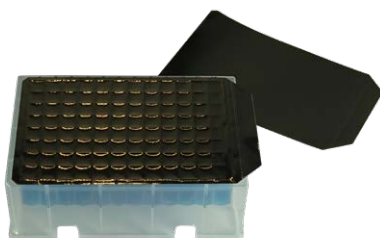
SEALING FILMS, NON-TACKY, FOR QPCR, STORAGE AND CRYSTALLISATION

50 µm polyolefin films with 50 µm inert encapsulated silicone adhesive. Especially suited for qPCR, storage and protein crystallisation applications. The encapsulated silicone adhesive is non tacky until pressed against the sealing surface, at which time adhesive is released only in sealing areas to form the strongest available heat resistant seal around each well on the plate.

- High optical clarity, minimal to no autofluorescence
- Chemically inert; no extractables except at extreme pH; DMSO resistant for HTS
- Heat resistant, recommended for temperatures from –70 to +100 °C
- Certified free from DNase, RNase, and nucleic acid

Sized to fit within the edges of raised-rim 96-well plates (76,2×133,4 mm). Two end tabs assist in positioning the film on the plate.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing film	Optically clear	-	101,6	100	391-0189
Sealing film	Optically clear	+	101,6	50	391-0624
Sealing film	Optically clear	-	101,6	25	391-0644



Aluminium foil seals for long term storage

ALUMINIUM FOIL SEALS FOR LONG TERM STORAGE, CHEMICAL RESISTANT (DMSO)

Aluminum foils for use with 96-well or 384-well plates. Foils offer excellent chemical resistance (DMSO).

- Ideal for long-term storage
- Certified DNase- and RNase- free
- Temperature range is –80 to +120 °C
- Pierceable
- Light blocking
- No adhesive residue upon removal

391-0621 fits inside the rim of raised rim plates. 391-0642 fits all flat top plates.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing foil	Light blocking	-	78,8	100	391-0621
Sealing foil, large	Light blocking	-	78,8	100	391-0642



ALUMINIUM FOIL SEALS FOR COLD STORAGE

Aluminium foils with biologically inert adhesive. These foils are easily pierced by manual or automated pipette tips, for sample recovery without generation of aerosols or cross-contamination.

- Recommended for temperatures from -80 to +120 °C
- Not recommended for PCR

Each foil LxD: 133x82 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Aluminium foils	Light blocking	-	101,6	100	391-1275
Aluminium foils	Light blocking	+	101,6	50	391-1296



SEALING FILM FOR AUTOMATION

Adhesive sealing film rolls constructed on plastic cores, for use with high throughput automated microplate sealers.

- Continuous rolls - no splices
- Film does not extend beyond edge of plastic core
- Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion

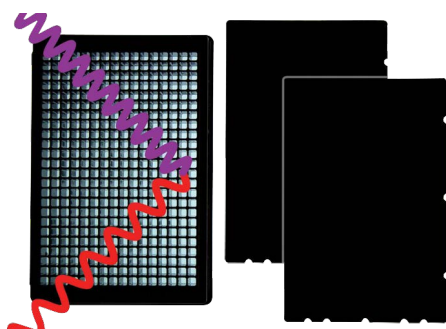
Sealing film for qPCR, sitting-drop protein crystallisation, HTS and cold storage

Clear polyolefin with ultra-strong, pressure-sensitive silicone adhesive for qPCR, sitting-drop protein crystallisation, HTS, storage and general incubation applications.

- DMSO resistant
- Nuclease-, nucleic acid- and pyrogen-free
- Provides as strong a bond to the plate as heat sealing films without the drawbacks of heat

Description	Optical property	Sterile	Temp. range (°C)	Thickness (µm)	Pk	Cat. No.
Sealing film, polyolefin, DNase- and RNase-free	Optically clear	-	-80...+105	101,6	1 Roll	731-0308

Light blocking adhesive seals protect light sensitive samples during storage. Available in easy to pierce aluminum foil and white and black vinyl.



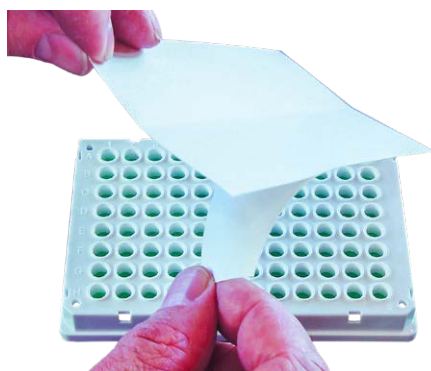
BLACK FILM SEALS FOR FLUORESCENCE AND PHOTOPROTECTION

These films are 200 µm thick black vinyl with adhesive for use with 96-well, 384-well, and 1536-well black microplates. They fit within the edges of raised-rim plates and may be applied to either the plate top or bottom. The light-blocking and absorbing properties of these films make them ideal for reducing stray light and crosstalk in fluorescence applications and for protecting light-sensitive samples in storage.

- Edge cutouts assist in positioning around ribs on the plate bottom
- Split backing aids in applying the film properly
- No end tabs
- Recommended temperature range –40 to +80 °C

Each film LxD: 114×76 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Black vinyl films	Light blocking	-	240,0	50	391-1291



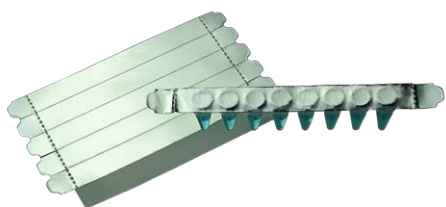
WHITE FILMS FOR LUMINESCENCE AND MICROSCOPY

These films are 200 µm thick white vinyl with adhesive, for use with white microplates. Light reflective properties of the film, when used to seal clear-bottom plates, maximise the sensitivity of bioluminescence and chemiluminescence assays in bottom-reading Luminometers. White films have also been used as a backing matrix for microscopy of punch-out samples from filter plates.

- Backing split on the long dimension aids in application of film to plates
- Film can be applied to either top or bottom
- No end tabs
- Recommended temperature range –40 to +80 °C

Each film LxD: 116×76 mm.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
White vinyl films	Light blocking	-	240,0	50	391-1293



Aluminum sealing strips for 8-strip PCR tubes

ALUMINUM SEALING STRIPS FOR 8-STRIP PCR TUBES

Easier to apply and remove as compared to standard molded PCR strip caps.

- Ideal for PCR
- User-friendly alternative to strip-caps; no sore thumbs and fingers guaranteed
- Seals a single 8-well row of a 96-well plate or a single PCR 8-tube strip
- Certified DNase- and RNase-free
- 2.0 mil pierceable foil
- Recommended temperature range from –20 to +120 °C

6 strips are precut on a continuous liner for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
1×8 sealing strips	Light blocking	-	87,6	300	391-0637



ALUMINIUM FOIL SEALS FOR PCR AND STORAGE (96- AND 384-WELL PLATES)

Aluminium foils, 38 µm thick, for use with 96- or 384-well plates. Fit inside the rim of raised rim plates. These foils have one partial-width end tab. Available non sterile only.

- Recommended for temperatures from –80 to +120 °C
- Certified free from DNase, RNase and nucleic acids

Each foil LxD: 127,0x77,8 mm, including single 9,5 mm end tab.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Aluminium foils for 96-well plates	Light blocking	-	75,7	100	391-1282
Aluminium foils for 384-well plates	Light blocking	-	75,7	100	391-1281



Adhesive sealing foil roll

ALUMINIUM FOIL SEALS FOR LIGHT SENSITIVE ASSAYS AND AUTOMATION

Precut aluminum foil seals on a roll for PCR applications. Supplied on a roll with holder for ease of use.

- Ideal for light sensitive assays and automation
- Rapidly seal microplates; faster than applying single sheeted film
- 2 mil pierceable foil
- Certified DNase- and RNase-free
- Recommended temperature range from –20 to +120 °C

Self-standing, non-slip dispenser is supplied for ease of use.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing foil, roll format	Light blocking	-	87,6	500	391-0641



SEALING FILM FOR AUTOMATION

Adhesive sealing foil rolls constructed on plastic cores, for use with high throughput automated microplate sealers.

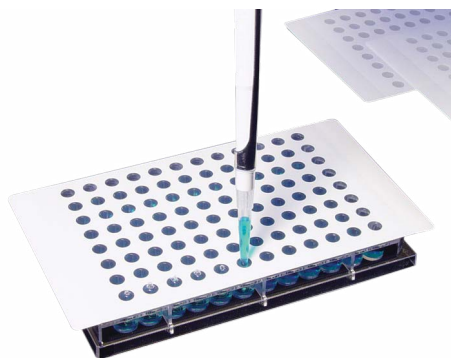
- Continuous rolls - no splices
- Foil does not extend beyond edge of plastic core
- Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion

Sealing foil for PCR, HTS and cold storage

Pierceable aluminium foil with pressure-sensitive acrylic adhesive for PCR, HTS and cold storage.

- DMSO resistant
- Easily pierceable for sample recovery
- Nuclease-, nucleic acid- and pyrogen-free

Description	Optical property	Sterile	Temp. range (°C)	Thickness (µm)	Pk	Cat. No.
Sealing foil, aluminium	Light blocking	-	–80...+120	75,7	1 Roll	731-0307



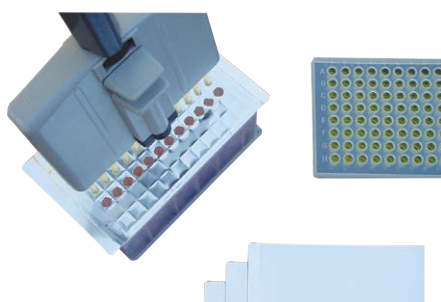
PIERCEABLE FILMS FOR ROBOTICS, CLEAR-ZONE

With a polyethylene top layer and inert white polypropylene and acrylic adhesive sublayer, this easy-piercing sealing film allows direct sample recovery with single or multichannel pipettors and robotic probes.

- Clear zone above each well is free of adhesive
- Minimise sample exposure to adhesive
- Recommended temperature range –40 to +90 °C

The adhesive-free zone above each well prevents adhesive fouling of the pipette tip or robotic probe, minimising the amount of adhesive that comes into contact with the sample. Suitable for 96-well plates only.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Clear-Zone films	Transparent	-	96,6	50	391-1264



ADHESIVE PCR FOIL SEALS

These soft, non permeable 38 µm thick aluminium foils, (total thickness 63,5 µm) with strong medical grade adhesive, eliminate the need for heat sealing devices or mats during thermal cycling. Compared to other aluminium foils, these foils have less tendency to roll back on themselves when removing the backing paper, and fit well to the plate during application.

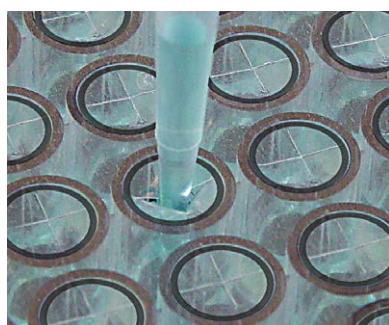
- Recommended for temperatures from –80 to +120 °C
- Easily pierceable with pipette tips and robotic probes
- Excellent vapour barrier, virtually no sample evaporation
- Certified free from DNase, RNase and nuclease

Each foil LxD: 142,9x82,6 mm with sufficient sealing area for all PCR plates.

Length with end tabs removed: 125,4 mm

Sterile product is packed in tamper-evident bags of 25/bag.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Aluminium foils	Light blocking	+	63,5	50	391-1257
Aluminium foils	Light blocking	-	63,5	100	391-1256



PRECUT PIERCEABLE VINYL FILMS FOR ROBOTICS

These 88,9 µm thick vinyl films with 17,8 µm adhesive layer are designed for temporary protection of samples in 96-well plates from contamination and evaporation.

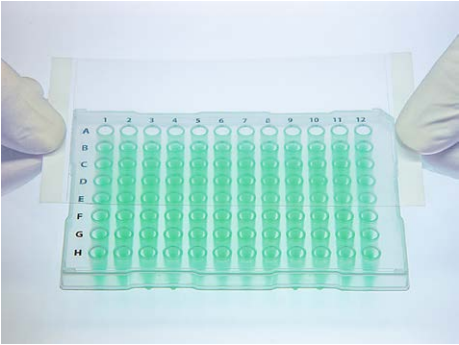
- Protect samples and limit evaporation short-term
- Precut flaps bend inward without fouling probes or tips
- Flaps close for continued protection after sampling
- Recommended temperature range –40 to +90 °C

A precut pattern over each well separates the film into four flaps that bend inward easily when pushed by a robotic probe or pipette tip, allowing access to the sample without coring or adhesive fouling. The resilient flaps regain their original position after sampling for continued sample protection. For long-term sample protection after sampling, a continuous film should be applied as a second layer. Suitable for sealing all standard 96-well plates.

Each film LxD: 145,5x79,4 mm

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Precut vinyl films	Transparent	-	106,7	100	391-1286
Precut vinyl films	Transparent	+	106,7	50	391-1287

Optically clear, low autofluorescence adhesive seals minimize evaporation and well to well cross contamination. Available in polyolefin with non-tacky silicone adhesive.



SEALING FILMS, NON-TACKY, FOR QPCR, STORAGE AND CRYSTALLISATION

50 µm polyolefin films with 50 µm inert encapsulated silicone adhesive. Especially suited for qPCR, storage and protein crystallisation applications. The encapsulated silicone adhesive is non tacky until pressed against the sealing surface, at which time adhesive is released only in sealing areas to form the strongest available heat resistant seal around each well on the plate.

- High optical clarity, minimal to no autofluorescence
- Chemically inert; no extractables except at extreme pH; DMSO resistant for HTS
- Heat resistant, recommended for temperatures from -70 to +100 °C
- Certified free from DNase, RNase, and nucleic acid

Sized to fit within the edges of raised-rim 96-well plates (76,2x133,4 mm). Two end tabs assist in positioning the film on the plate.

Description	Optical property	Sterile	Thickness (µm)	Pk	Cat. No.
Sealing film	Optically clear	-	101,6	100	391-0189
Sealing film	Optically clear	+	101,6	50	391-0624
Sealing film	Optically clear	-	101,6	25	391-0644



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- Stackable

Can be autoclaved.

Description	Colour	Pk	Cat. No.
Reagent reservoir	Transparent	10	391-0625



PLATE ROLLER FOR SECURING FILMS AND FOILS TO MICROPLATES

Soft rubber roller recommended for assuring tight and consistent application of adhesive films to microplates.

Description	Pk	Cat. No.
Plate roller	1	391-1278



SEALING FILM APPLICATOR

Description	Pk	Cat. No.
Film sealing paddles, non sterile	5	391-0241

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