

## Sealing Solutions

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# Sealing Solutions



For applications ranging from PCR and Real-time PCR to ELISA and cell culture, Axygen® films are the easy and cost effective way to seal your microplates. Available in sticky sheets, heat seal sheets, or heat seal rolls.

- ▶ Lids are available in polypropylene and polystyrene; lids provide an easy way to cover most microplates.
- ▶ An extensive range of ImpermaMats offer excellent protection for applications involving aggressive solvents
- ▶ Sealing films offer great economy for disposable use.
- ▶ AxyMats and ImpermaMats are autoclavable and reusable.
- ▶ Films and mats can be used in a wide temperature range.

## Plate Sealing

Each “well-sealer” incorporates a “scored” area for puncturing by a syringe needle which allows samples to be dispensed and/or aspirated even while the AxyMat is in place. Once punctured each ‘well-sealer’ will reseal itself, ensuring an airtight seal to the well.



## Corning offers an extensive array of Axygen plate sealing options suitable for any preference or application.

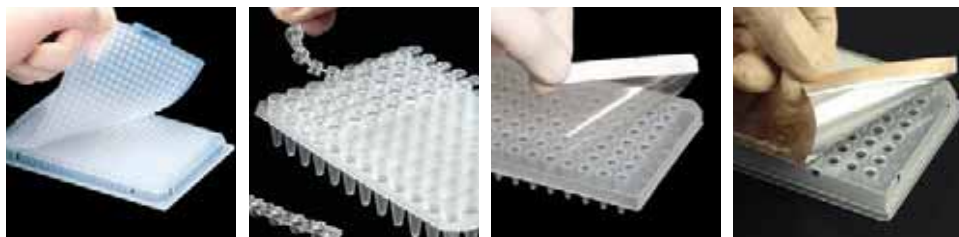
PCR Axygen AxyMats are research-grade silicone sealing mats designed for long- or short-term sample storage and PCR. They are autoclavable and reusable.

Compression and expansion AxyMats are ideal for sealing microplates during thermal cycling. Thicker than PCR AxyMats, these form an optimal seal between the cycler's heated lid and the wells, eliminating evaporation and well-to-well contamination. They are autoclavable and reusable.

Axygen 8-strip caps applied to multiwell microplates offer a quick and effective way to seal selected rows and subsequently access individual wells.

HeatSeal is ideal for PCR applications as it eliminates evaporation and well-to-well contamination. It is also useful for sample storage and transport.

AluminumSeal and PolyesterSeal is designed for high throughput screening applications, but is also popular for long-term storage, transport, and PCR.



Axygen products are manufactured in a clean, controlled “state of the art” facility and are RNase-/DNase-/human gDNA-free and nonpyrogenic.



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## Axygen® AxyMat Sealing Mats

Axygen AxyMat sealing mats can be used in a wide range of temperatures for PCR and storage applications. AxyMats minimize evaporation and are made of research-grade silicone which can be autoclaved. They can be reused following a bleach wash and ethanol rinse protocol.

### For PCR Microplates

Cat. No.	Description	Fits Microplate (Cat. No.)	Packaging
AM-96-PCR-RD	AxyMat sealing mat for 96-well round well PCR microplate	PCR-96-C, PCR-96-MB-C, PCR-96-LP-FLT-C, PCR-96-FLT-C, PCR-96-SG-C, PCR-96-AB-C, PCR-96-LP-AB-C, PCR-96M2-HS-C, PCR-96-FS-C	Bulk, 10/pk, 5 pk/cs
AM-384-PCR-RD	AxyMat sealing mat for 384-well round well PCR microplate	PCR-384-C, PCR-384M2-C, PCR-384-RGD-C	Bulk, 10/pk, 5 pk/cs

### For Assay and Storage Microplates

AM-24-SQ	Pierceable sealing mat for 24-well square deep well plates	P-DW-10ML-24-C	Bulk, 10/pk, 5 pk/cs
AM-48	AxyMat sealing mat for 5 mL 48-well deep well plates	P-5ML-48-C	Bulk, 10/pk, 5 pk/cs
AM-2ML-RD	Pierceable AxyMat sealing mat for 96-well round well assay microplates	P-DW-11-C, P-DW-20-C, P-96-450R-C, P-96-450V-C	Bulk, 10/pk, 5 pk/cs
AM-2ML-RD-S	Pierceable AxyMat sealing mat for 96-well round well assay microplates, sterile	P-DW-11-C, P-DW-20-C, P-96-450R-C, P-96-450V-C	Bulk, 10/pk, 5 pk/cs
AM-500UL-RD	Pierceable AxyMat sealing mat for 500 µL 96-well round deep well microplates	P-DW-500-C	Bulk, 10/pk, 5 pk/cs
AM-2ML-SQ	Pierceable AxyMat sealing mat for 96-well square well microplates	P-2ML-SQ-C	Bulk, 10/pk, 5 pk/cs
AM-750UL-RD	Pierceable AxyMat sealing mat for 750 µL 96-well round well microplate and ELISA plate	Optimized to fit 1.0 mL Corning deep well plates as well as the Axygen mini tube system	Bulk, 10/pk, 5 pk/cs
AM-384-DW-SQ	Pierceable AxyMat sealing mat for 384-well square well microplates	P-384-120SQ-C, P-384-240SQ-C	Bulk, 10/pk, 5 pk/cs

## Axygen® ImpermaMat Sealing Mats

Axygen ImpermaMat sealing mats can be used in a wide range of temperatures for PCR and storage applications. ImpermaMats minimize evaporation and are made of research-grade silicone which can be autoclaved. They can be reused following a bleach wash and ethanol rinse protocol. ImpermaMats are chemically resistant sealing mats that provide a high degree of confidence for storage applications involving more aggressive solvents. They do not contain any adhesives or extractables which could contaminate samples.

- ▶ Chemically resistant
- ▶ Designed for use with Axygen deep well and assay microplates
- ▶ Tight plate seal reduces sample evaporation and well-to-well contamination
- ▶ Usable within a wide temperature range, from -80°C to +121°C
- ▶ High contrast alphanumeric grid for easy well identification



Cat. No.	Description	Fits Microplate (Cat. No.)	Packaging
AM-2ML-RD-IMP	ImpermaMat chemically resistant sealing mat for 1.1 mL and 2.0 mL 96-well round well assay microplates	P-DW-11-C, P-DW-20-C, P-96-450R-C, P-96-450V-C	Bulk, 10/pk, 5 pk/cs
AM-2ML-SQ-IMP	ImpermaMat chemically resistant sealing mat for 2.0 mL 96-well square deep well microplates	P-2ML-SQ-C	Bulk, 10/pk, 5 pk/cs
AM-48-IMP	ImpermaMat chemically resistant sealing mat for 5.0 mL 48-well deep well plates	P-5ML-48-C	Bulk, 10/pk, 5 pk/cs
AM-384-SQ-IMP	ImpermaMat chemically resistant sealing mat for 384-well square well microplates	P-384-120SQ-C, P-384-240SQ-C	Bulk, 10/pk, 5 pk/cs



## Axygen® Sealing Films

Axygen microplate sealing films are designed for applications ranging from PCR and Real-time PCR to storage. They can be used in a wide range of temperatures making them suitable for nearly any application.



### Breathable

- ▶ Allows effective gas exchange for cellular and bacterial cultivation, while reducing contamination
- ▶ Seals polypropylene and polystyrene culture microplates, 96-well microplates, 384-well microplates, and other assay microplates

Cat. No.	Description	Thickness (µm)	Dimensions (mm)	Min. Working Temp.	Max. Working Temp.	Application	Packaging
BF-400	Rayon	140	153 x 82.3	-20°C	80°C	Tissue culture	Bulk, 100/pk, 10 pk/cs
BF-400-S	Rayon, sterile	140	153 x 82.3	-20°C	80°C	Tissue culture	Bulk, 25/bag, 2 bags/pk, 10 pk/cs



### UltraClear, pressure-sensitive

- ▶ Seals 96-well and 384-well PCR microplates
- ▶ Film clarity allows optical analysis during Real-time PCR.
- ▶ Pressure-sensitive adhesive; no tacky residues that can interfere with optical analysis

Cat. No.	Description	Thickness (µm)	Dimensions (mm)	Min. Working Temp.	Max. Working Temp.	Application	Packaging
UC-500	Polyolefin	97	141.5 x 77.7	-70°C	100°C	Real-time PCR	Bulk, 100/pk, 5 pk/cs



### Aluminum

- ▶ Uniformly applied adhesive provides a tight seal on multiwell microplates under a wide range of temperature conditions and reagents.
- ▶ Seals during thermal cycling process when used in conjunction with Axygen compression mats
- ▶ Ideal for light-sensitive samples

Cat. No.	Description	Thickness (µm)	Dimensions (mm)	Min. Working Temp.	Max. Working Temp.	Application	Packaging
PCR-AS-200	Aluminum, pierceable	64	146 x 79.2	-80°C	104°C	PCR/Storage and light-sensitive	Bulk, 100/pk, 5 pk/cs
PCR-AS-600	Aluminum	102	133.3 x 79.2	-80°C	104°C	PCR/Storage and light-sensitive	Bulk, 100/pk, 5 pk/cs



### CycloSeal

- ▶ Tight seal across entire plate safeguards sample during transport or storage
- ▶ Reduces well-to-well contamination and cross-over in PCR applications when used with Axygen compression mats

Cat. No.	Description	Thickness (µm)	Dimensions (mm)	Min. Working Temp.	Max. Working Temp.	Application	Packaging
PCR-TS	Polyester	99	135.5 x 80	-40°C	102°C	PCR/Storage	Bulk, 100/pk, 5 pk/cs



### AxySeal

- ▶ Polyester-based with uniformly applied acrylic adhesive reduces the edge effect in sensitive ELISA assays
- ▶ Suitable for use on tissue culture microplates, short-term storage and incubation, transport, and containment of biohazardous solutions

Cat. No.	Description	Thickness (µm)	Dimensions (mm)	Min. Working Temp.	Max. Working Temp.	Application	Packaging
PCR-SP	Polyester	74	146 x 79.6	-40°C	104°C	ELISA	Bulk, 100/pk, 5 pk/cs
PCR-SP-S	Polyester, sterile	74	146 x 79.6	-40°C	104°C	ELISA	Bulk, 100/pk, 5 pk/cs

## Axygen® PlateMax® Heat Sealing Films

Axygen PlateMax microplate heat sealing films are designed for applications ranging from PCR and Real-time PCR to storage. They can be used in a wide range of temperatures making them suitable for nearly any application.

Cat. No.	Material	Thickness (µm)	Dimensions (mm)	Min. Working Temp.	Max. Working Temp.	Application	Packaging
<b>Paper-backed</b>							
MF-300	Litto/ethylene/vinyl	85	127.2 x 79.5	-80°C	104°C	Storage	Bulk, 100/pk
<b>UltraClear, Permanent</b>							
HS-100-QPCR	Polyester	52	125 x 78	-80°C	110°C	qPCR, fluorescence, colorimetric measurements	Bulk, 100/pk, 5 pk/cs
<b>UltraClear, Peelable</b>							
HS-150-QPCR	Polyester	100.5	125 x 78	-80°C	80°C*	qPCR, fluorescence, colorimetric measurements	Bulk, 100/pk, 5 pk/cs
<b>Peelable</b>							
HS-200	Polyester/aluminum	70	125 x 78	-80°C	90°C*	Compound, storage, PCR	Bulk, 100/pk, 5 pk/cs
HS-400	Polyester/aluminum	70	125 x 78	-80°C	40°C	Compound storage	Bulk, 100/pk, 5 pk/cs
HS-300	Aluminum	20	125 x 78	-80°C	120°C	Storage	Bulk, 100/pk, 5 pk/cs

\*110°C with pressurized PCR-heated lids.



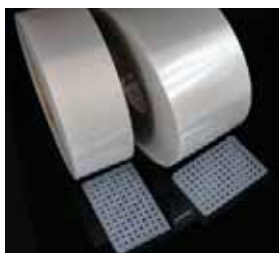
## Axygen® PlateMax® Heat Sealing Films, Rolls

Axygen PlateMax microplate heat sealing films are designed for applications ranging from PCR and Real-time PCR to storage. They can be used in a wide range of temperatures making them suitable for nearly any application.



### Pierceable

Cat. No.	Material	Dimensions	Application	Compatibility	Packaging
HSF-AS-300-L	Aluminum	115 mm x 500M	–	Agilent	Individual roll
HSF-AS-300-P	Aluminum	78 mm x 610M	–	ALPS	Individual roll



### CyclerSeal, Peelable

Cat. No.	Material	Dimensions	Application	Compatibility	Packaging
HSF-TS-L	Polyester/ aluminum	115 mm x 500M	PCR/Storage	Agilent	Individual roll



## Sealing Film Roller

Ideal for application of all Axygen PlateMax sealing films

Cat. No.	Description	Packaging
PCR-SP-ROLLER	Sealing film roller	1/cs