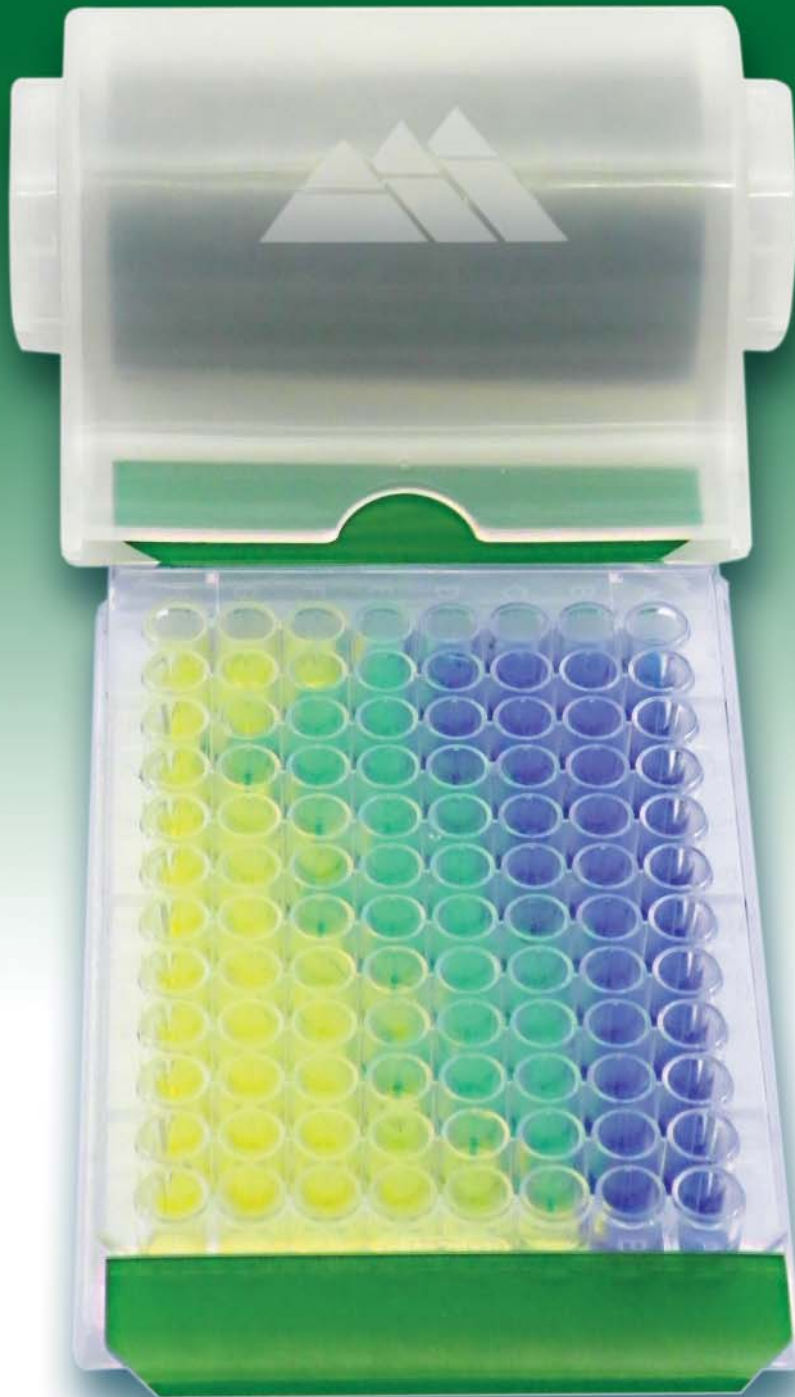# High-Performance Sealing Products for Microplates
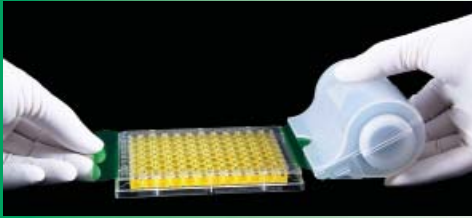

EXCEL Scientific, Inc.

"The Plate-Sealing and Reagent-Handling Experts"
18350 George Blvd. ◆ Victorville, CA 92394 USA ◆ Tel: (760) 246-4545 ◆ Fax: (760) 246-5588
Email: info@excelscientific.com ◆ Website: www.excelscientific.com

The SealMate™ System NEW!

A handy protective dispenser and adhesive films in proprietary sheeted-roll format simplify and speed sealing of standard SBS-format microplates.

- economical; each roll contains seals for 100 (SealPlate®) or 50 (AeraSeal™) microplates
- three times faster than applying sheet films by hand
- environmentally friendly, no backing-sheet waste
- prescored films separated by color bands for easy application

For more information: www.excelscientific.com/sealmate_content.html

for ELISA and General Incubation
Recommended temperature range: -40 to +120 °C
Film: polyester, 38 µm thick   Adhesive: acrylic, 25 µm thick   Properties: prevents evaporation

Cat.No.	Description	Qty/Pkg
SM-KIT-SP	Starter Kit with SealPlate® Film, Non-Sterile	1 dispenser + 2 rolls
SM-KIT-SPS	Starter Kit with SealPlate® Film, Sterile	1 dispenser + 2 rolls
RSMSP-2	SealPlate® Film Replacement Rolls, Non-Sterile	2 rolls
RSMSP-2-S	SealPlate® Film Replacement Rolls, Sterile	2 rolls

for Biological Cultures
Recommended temperature range: -20 to +80 °C
Film: rayon   Adhesive: medical-grade   Total thickness: 140 µm   Properties: breatheable, pierceable

Cat.No.	Description	Qty/Pkg
SM-KIT-B	Starter Kit with AeraSeal™ Film, Non-Sterile	1 dispenser + 2 rolls
SM-KIT-BS	Starter Kit with AeraSeal™ Film, Sterile	1 dispenser + 2 rolls
RSMB-2	AeraSeal™ Film Replacement Rolls, Non-Sterile	2 rolls
RSMB-2-S	AeraSeal™ Film Replacement Rolls, Sterile	2 rolls

Roll-Seal™ Films for Automation NEW!

Adhesive sealing film rolls on 3-inch plastic cores compatible with adhesive SBS plate sealers.

- continuous rolls; no splices
- film or foil does not extend beyond edge of core
- static-free manufacturing and packaging

For more information: www.excelscientific.com/rollseal_content.html

Cat.No.	Description	Qty/Pkg
RRTS-79x65	ThermalSeal RTS™ Film*, 79 mm wide x 65 meters long, Non-Sterile (Film: polyolefin, 50 µm thick Adhesive: silicone, 50 µm thick Seals: 540 plates)	1 roll
RB-81x100	AeraSeal™ Breatheable Film*, 81 mm wide x 100 meters long, Non-Sterile (Film: rayon Adhesive: medical grade Total thickness: 140 µm Seals: 830 plates)	1 roll
RF-80x100	AlumaSeal® Foil*, 80 mm wide x 100 meters long, Non-Sterile (Foil: aluminum, 38 µm thick Adhesive: acrylic, 38 µm thick Seals: 830 plates)	1 roll

* For recommended applications please see the sheet-film sections for these trademarks.

for Robotics and High-Throughput Processing

Zone-Free™ Sealing Films
Recommended temperature range: -40 to +90 °C
Film: polyethylene, 70 µm thick   Adhesive: acrylic, 26 µm thick   Properties: pierceable, 2 end tabs

An inert white polypropylene sublayer provides adhesive-free zones above 96 wells to prevent adhesive fouling of pipet tips or robotic probes when pierced for sample recovery.
For more information: www.excelscientific.com/ezpierce_content.html#zonefree

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
ZAF-PE-50	Zone-Free Sealing Films, Non-Sterile	50 sheets	79.4 x 142.9 mm

X-Pierce™ Sealing Films
Recommended temperature range: -40 to +90 °C
Film: vinyl, 89 µm thick   Adhesive: acrylic, 18 µm thick   Properties: precut pierceable, 2 end tabs

Designed for temporary protection of samples in 96-well plates during processing. A precut "X" over each well creates bendable flaps that facilitate sample access by pipet tips or robotic probes without coring or adhesive fouling, then partially reseal after piercing to minimize evaporation.
For more information: www.excelscientific.com/ezpierce_content.html#xpierce

| Cat.No.	Description	Qty/Pkg	Sheet Dimensions
XP-100	X-Pierce Sealing Films, Non-Sterile	100 sheets	79.4 x 145.5 mm
XPS-25	X-Pierce Sealing Films, Sterile	50 sheets	79.4 x 145.5 mm

Accessories

for Pressing Film to Plate, to Assure a Secure Seal Around Each Well
Roller recommended for flat-top plates. Paddles work within edges of raised-rim plates.

Cat.No.	Description	Qty/Pkg
RL-PLT-01	Plate Roller, Non-Sterile	1 roller
PDL-5	Film-Sealing Paddles, Non-Sterile	5 paddles

www.excelscientific.com

for ELISA and General Incubation

Also available in SealMate format ▶
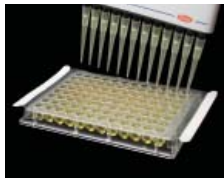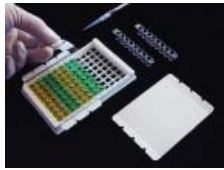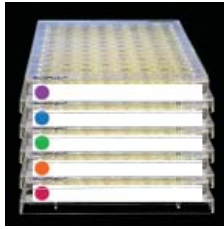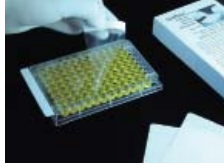
SealPlate® Sealing Films
Recommended temperature range: -40 to +120 °C
Film: polyester, 50 µm thick   Adhesive: acrylic, 25 µm thick   Properties: non-pierceable, 2 end tabs

Secure sealing of all wells minimizes evaporation, prevents spillage and contamination between wells, and eliminates "edge effects" in sensitive ELISA assays. ColorTab™ versions have color dot and white writing area on each end tab for plate ID labeling. MiniStrips™ varieties are designed for sealing only one or two 8-well rows at a time on either strip-well or standard plates whenever rows must be selectively protected or accessed.

For more information: www.excelscientific.com/sealplate_content.html

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
100-SEAL-PLT	SealPlate Sealing Films, Non-Sterile	100 sheets	79.4 x 146.1 mm
STR-SEAL-PLT	SealPlate Sealing Films, Sterile	100 sheets	79.4 x 146.1 mm
SP-IDG-100	SealPlate ColorTab Sealing Films, Green, Non-Sterile	100 sheets	79.4 x 146.1 mm
SP-IDL-100	SealPlate ColorTab Sealing Films, Lavender, Non-Sterile	100 sheets	79.4 x 146.1 mm
SP-IDO-100	SealPlate ColorTab Sealing Films, Orange, Non-Sterile	100 sheets	79.4 x 146.1 mm
SP-IDR-100	SealPlate ColorTab Sealing Films, Red, Non-Sterile	100 sheets	79.4 x 146.1 mm
SP-IDB-100	SealPlate ColorTab Sealing Films, Blue, Non-Sterile	100 sheets	79.4 x 146.1 mm
SP-IDA-10	SealPlate ColorTab Sealing Films, Assorted, Non-Sterile	50 sheets	79.4 x 146.1 mm
SP-2x8-50	SealPlate MiniStrips Sealing Films, Non-Sterile	200 in sheets of 4	19.0 x 102.9 mm
SPS-2x8-50	SealPlate MiniStrips Sealing Films, Sterile	200 in sheets of 4	19.0 x 102.9 mm

ThinSeal™ Sealing Films
Recommended temperature range: -40 to +120 °C
Film: polyester, 25 µm thick   Adhesive: acrylic, 25 µm thick   Properties: marginally pierceable

Similar to SealPlate films but thinner, thus marginally pierceable with single channel pipets.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
100-THIN-PLT	ThinSeal Sealing Films, Non-Sterile	100 sheets	79.4 x 141.0 mm
STR-THIN-PLT	ThinSeal Sealing Films, Sterile	100 sheets	79.4 x 141.0 mm

EZ-Pierce™ Sealing Films
Recommended temperature range: -40 to +90 °C
Film: polyethylene, 70 µm thick   Adhesive: acrylic, 25 µm thick   Properties: pierceable, 2 end tabs

Easily pierceable for sample recovery with single or multichannel pipettors and robotic probes.

For more information: www.excelscientific.com/ezpierce_content.html

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
EZP-100	EZ-Pierce Sealing Films, Non-Sterile	100 sheets	82.6 x 142.9 mm
EZPS-25	EZ-Pierce Sealing Films, Sterile	50 sheets	82.6 x 142.9 mm

for Biological Cultures

Also available in SealMate and Roll-Seal formats ▶

AeraSeal™ Sealing Films
Recommended temperature range: -20 to +80 °C
Film: rayon   Adhesive: medical-grade   Total thickness: 140 µm   Properties: breatheable, pierceable

For cell or bacterial growth in plates and bio-blocks AeraSeal films allow uniform air and CO_2 exchange for all wells, unlike lids which favor exchange for wells near the plate edges.

For more information: www.excelscientific.com/aeraseal_content.html

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
B-100	AeraSeal Breatheable Sealing Films, Non-Sterile	100 sheets	82.6 x 142.9 mm
BS-25	AeraSeal Breatheable Sealing Films, Sterile	50 sheets	82.6 x 142.9 mm

for Cold Storage

Certified DNase-, RNase- and nucleic-acid-free
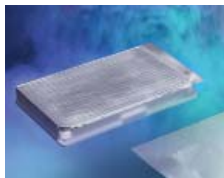
AlumaSeal CS™ Sealing Foils
Recommended temperature range: -80 to +120 °C
Film: aluminum, 50 µm thick   Adhesive: acrylic, 50 µm thick   Properties: pierceable, single end tab

Thicker foil and adhesive than other AlumaSeal products for best performance in long-term cold-storage applications. A single non-perforated end tab simplifies application to the plate.

For more information: www.excelscientific.com/alumaseal_content.html#CS

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
FC-100	AlumaSeal CS Sealing Foils, Non-Sterile	100 sheets	82.6 x 132.6 mm
FCS-25	AlumaSeal CS Sealing Foils, Sterile	50 sheets	82.6 x 132.6 mm

for Fluorescence, Photoprotection, Luminescence and Microscopy
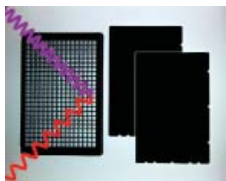
For more information: www.excelscientific.com/blackwhite_content.html

AbsorbMax™ Sealing Films
Recommended temperature range: -40 to +80 °C
Film: vinyl, 203 µm thick   Adhesive: acrylic, 37 µm thick   Properties: black, opaque

Reduce stray light and crosstalk in luminescence assays. Protect light-sensitive samples.

BrightMax™ Sealing Films
Recommended temperature range: -40 to +80 °C
Film: vinyl, 203 µm thick   Adhesive: acrylic, 37 µm thick   Properties: white, opaque

Maximize sensitivity of bioluminescence and chemiluminscence assays in bottom-reading luminometers. Use as microscopy backing matrix for filter-plate samples, e.g. ELISPOT assays.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
BK-50	AbsorbMax Black Sealing Films, Non-Sterile	50 sheets	76.2 x 114.3 mm
WT-50	BrightMax White Sealing Films, Non-Sterile	50 sheets	76.2 x 116.0 mm

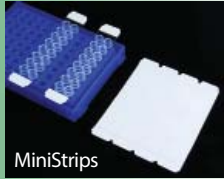# for Classic PCR

Certified DNase-, RNase- and nucleic-acid-free

For more ThermalSeal information:
www.excelscientific.com/thermalseal_content.html

MiniStrips

For more AlumaSeal information:
www.excelscientific.com/alumaseal_content.html

Also available in Roll-Seal format ▶

ThermalSeal 2™ Sealing Films
Recommended temperature range: -40 to +120 °C
Film: polyester, 50 µm thick   Adhesive: acrylic, 41 µm thick   Properties: non-pierceable
An improved film for classic thermal cycling applications. Compared to original ThermalSeal® films (below), ThermalSeal 2 films offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate. Length with end tabs removed: 125.1 mm.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
TS2-100	ThermalSeal 2 Sealing Films, Non-Sterile	100 sheets	79.4 x 139.7 mm

ThermalSeal® Sealing Films
Recommended temperature range: -40 to +120 °C
Film: polypropylene, 50 µm thick   Adhesive: acrylic, 25 µm thick   Properties: non-pierceable
Heat-resistant polypropylene sealing film with two end tabs for thermal cycling applications. MiniStrips™ version designed for sealing one or two 8-well rows at a time on plates or strip tubes. Length with end tabs removed: 123.1 mm for ThermalSeal; 76.2 mm for ThermalSeal MiniStrips.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
100-THER-PLT	ThermalSeal Sealing Films, Non-Sterile	100 sheets	79.4 x 135.1 mm
STR-THER-PLT	ThermalSeal Sealing Films, Sterile	100 sheets	79.4 x 135.1 mm
TS-2x8-50	ThermalSeal MiniStrips Sealing Films, Non-Sterile	200 in sheets of 4	19.0 x 97.3 mm

ThermalSeal A™ Sealing Films
Recommended temperature range: -40 to +120 °C
Film: polypropylene, 50 µm thick   Adhesive: acrylic, 50 µm thick   Properties: non-pierceable
Advanced version of classic ThermalSeal films above. Thicker, stronger adhesive for better sealing and evaporation control with PCR plates with narrow or irregular sealing surfaces. Sized to fit within the edges of raised-rim PCR plates. Length with end tabs removed: 118.1 mm.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
TSA-100	ThermalSeal A Sealing Films, Non-Sterile	100 sheets	77.8 x 135.5 mm

AlumaSeal II™ Sealing Foils
Recommended temperature range: -80 to +120 °C
Film: aluminum foil, 36 µm thick   Adhesive: acrylic, 28 µm thick   Properties: pierceable, 2 end tabs
Soft, chemical-resistant aluminum foil with strong medical-grade adhesive. Length with end tabs removed is 125.4 mm for flat-top plates. For raised-rim plates, use AlumaSeal 96 foils below. Aluminum foils provide the best vapor barrier of all adhesive microplate seals.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
AF-100	AlumaSeal II Sealing Foils, Non-Sterile	100 sheets	82.6 x 146.1 mm
AFS-25	AlumaSeal II Sealing Foils, Sterile	50 sheets	82.6 x 146.1 mm
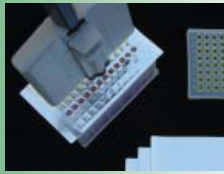
AlumaSeal 96™ Sealing Foils
Recommended temperature range: -80 to +120 °C
Film: aluminum foil, 38 µm thick   Adhesive: acrylic, 38 µm thick   Properties: pierceable
Thicker adhesive for better sealing and evaporation control with PCR plates with narrow or irregular sealing surfaces. Sized to fit within the edges of raised-rim PCR plates. One partial-width end tab with no perforation. Length not including end tab: 117.5 mm.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
F-96-100	AlumaSeal 96 Sealing Foils, Non-Sterile	100 sheets	77.8 x 127.0 mm

AlumaSeal 384™ Sealing Foils
Recommended temperature range: -80 to +120 °C
Film: aluminum foil, 38 µm thick   Adhesive: acrylic, 38 µm thick   Properties: pierceable
Similar to AlumaSeal 96 but not for raised-rim plates. Single full-width end tab with no perforation.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
F-384-100	AlumaSeal 384 Sealing Foils, Non-Sterile	100 sheets	82.5 x 137.3 mm

for Real-Time/qPCR and Sitting-Drop Protein Crystallization

Certified DNase-, RNase- and nucleic-acid-free
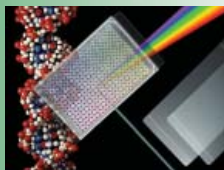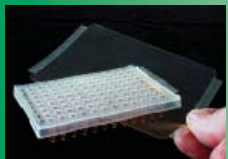
Also available in Roll-Seal format ▶

ThermalSeal RT™ Sealing Films
Recommended temperature range: -40 to +120 °C
Film: polyester, 50 µm thick   Adhesive: acrylic, 25 µm thick   Properties: optically clear, 2 end tabs
For more information: www.excelscientific.com/thermalseal_content.html#RT
An economical film with high optical clarity and low autofluorescence suitable for real-time qPCR analyses. The RT2RR version is sized to fit within the edges of raised-rim PCR plates.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
TS-RT2-100	ThermalSeal RT Sealing Films, Non-Sterile	100 sheets	79.4 x 142.9 mm
TS-RT2RR-100	ThermalSeal RT2RR Sealing Films, Non-Sterile	100 sheets	77.8 x 130.8 mm

ThermalSeal RTS™ Sealing Films
Recommended temperature range: -70 to +100 °C
Film: polyolefin, 50 µm thick   Adhesive: silicone, 50 µm thick   Properties: optically clear, chemical resistant
For more information: www.excelscientific.com/thermalseal_content.html#RTS
The silicone adhesive provides the strongest available seal, compatible with all PCR plates. For easy handling, the pressure-sensitive adhesive is non-tacky until pressed on the plate to seal.

Cat.No.	Description	Qty/Pkg	Sheet Dimensions
TSS-RTQ-100	ThermalSeal RTS Sealing Films, Non-Sterile	100 sheets	78.6 x 139.7 mm
TSS-RTQS-50	ThermalSeal RTS Sealing Films, Sterile	50 sheets	78.6 x 139.7 mm