

# Diamed.ca

OFFERS VALID UNTIL JUNE 30, 2013

 **EXCEL Scientific, Inc.**

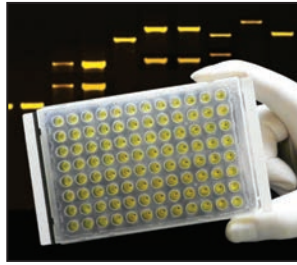


**Sealing Solutions for All  
Your Applications from Excel Scientific**

**Classic PCR Solutions**

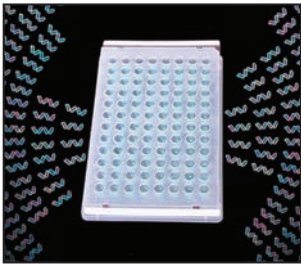
**ThermalSeal 2™**

When compared to the original ThermalSeal® the ThermalSeal 2™ films offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate. ThermalSeal2™ is designed for thermal cycling applications (- 40° to 120° C) and is easier to apply than foils as it has no tendency to roll back. Its' two end tabs allow for easy positioning of the film on the plate but are perforated for easy removal.



Film Material	Polyester
Film Thickness	50 µm
Adhesive Thickness	41 µm
Sealing Film Dimensions	79.4 x 139.7 mm
Length with end tabs removed	125.1 mm
Pierceability	Not Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

Product Code	Description	Quantity	Price	Your Price
ESCTS2-100	ThermalSeal2™ Excel Scientific Polyester Sealing Film, two end tabs, Clear, Not Pierceable, Non-Sterile	100/pk	<del>\$99.74</del>	<b>\$68.69</b>



Film Material	Polypropylene
Film Thickness	50 µm
Adhesive Thickness	25 µm
Sealing Film Dimensions	79.4 x 135.1 mm
Length with end tabs removed	123.1 mm
Pierceability	Not Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

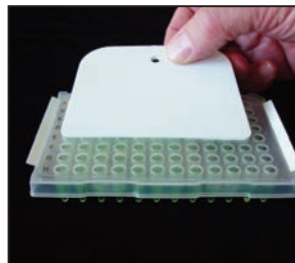
**ThermalSeal®**

The Original heat-resistant adhesive sealing film designed for thermal cycling applications (- 40° to 120° C) and is easier to apply than foils as it has no tendency to roll back. The films' two end tabs allow for easy positioning of the film on the plate but are perforated for easy removal. (Not recommended for PCR plates with narrow or irregular sealing surfaces)

Product Code	Description	Quantity	Price	Your Price
ESC100-THER-PLT	ThermalSeal® Excel Scientific Polypropylene Sealing Film, two end tabs, Clear, Not Pierceable, Non-Sterile	100/pk	<del>\$90.66</del>	<b>\$62.44</b>
ESCSTR-THER-PLT	ThermalSeal® Excel Scientific Polypropylene Sealing Film, two end tabs, Clear, Not Pierceable, Sterile	100/pk	<del>\$119.20</del>	<b>\$82.09</b>

**ThermalSeal A™**

ThermalSeal A™ sealing films are an advanced version of the ThermalSeal® for PCR. ThermalSeal A™ films have a thicker layer of and a stronger adhesive for improved evaporation & leakage protection during thermal cycling. They are designed to fit inside the edge of raised-rim PCR plates and provide more secure sealing of all wells because the center of the film does not extend over the plate rim. The two white end tabs allow for easy positioning of the film on the plate but are perforated for easy removal if necessary. Each package of ThermalSeal A™ films includes one sealing paddle for ensuring a firm seal.

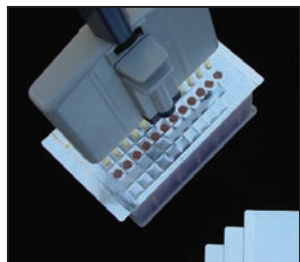


Film Material	Polypropylene
Film Thickness	50 µm
Adhesive Thickness	50 µm
Sealing Film Dimensions	77.8 x 135.5 mm
Length with end tabs removed	118.1 mm
Pierceability	Not Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

Product Code	Description	Quantity	Price	Your Price
ESCTSA-100	ThermalSeal A™ Excel Scientific Polypropylene Sealing Film, two end tabs, Clear, Not Pierceable, Non-Sterile	100/pk	<del>\$100.06</del>	<b>\$68.91</b>



### Classic PCR Solutions *(continued)*

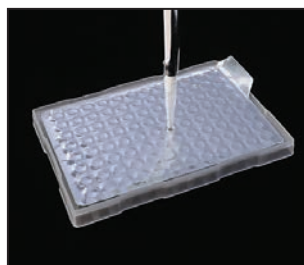


Film Material	Aluminum Foil
Film Thickness	36 µm
Adhesive Thickness	28 µm
Sealing Film Dimensions	82.6 x 146.1 mm
Length with end tabs removed	125.4 mm
Pierceability	Yes, Single, Multi channel or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

#### AlumaSeal II™

AlumaSeal II™ sealing films eliminate the need for heat-sealing devices or mats during thermal cycling; it provides a soft non permeable foil barrier with a layer of strong medical grade acrylic adhesive and is recommended for use between - 80° to 120° C. The AlumaSeal II™ has a reduced tendency to roll back on itself when removing the backing paper and conforms well to the plate during application virtually eliminating sample evaporation and/or drying.

Product Code	Description	Quantity	Price	Your Price
ESCAF-100	AlumaSeal II™ Excel Scientific Aluminum Foil Seal, two end tabs, Opaque Silver, Pierce-able, Non-Sterile	100/pk	<del>\$108.00</del>	\$74.38
ESCAFS-25	AlumaSeal II™ Excel Scientific Aluminum Foil Seal, two end tabs, Opaque Silver, Pierce-able, Sterile	2 x 25/pk	<del>\$89.98</del>	\$61.96



Film Material	Aluminum Foil
Film Thickness	38 µm
Adhesive Thickness	38 µm
Sealing Film Dimensions	77.8 x 127.0 mm
Length with end tabs removed	117.5 mm
Pierceability	Yes, Single, Multi channel or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

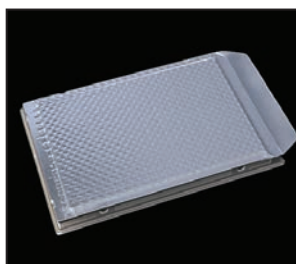
#### AlumaSeal 96™

The AlumaSeal 96™ sealing film provides a soft non permeable foil barrier with a layer of acrylic adhesive and is recommended for use between - 80° to 120° C. The AlumaSeal 96™ fits within the raised rim of plates and has one partial width or 9.5 mm end tab with no perforations (tab is not easily removed).

Product Code	Description	Quantity	Price	Your Price
ESCF-96-100	AlumaSeal 96™ Excel Scientific Aluminum Foil Seal, 1 x 9.5 mm End Tab, Opaque Silver, Pierceable, Non-Sterile	100/pk	<del>\$87.62</del>	\$60.35

#### AlumaSeal 384™

The AlumaSeal 384™ sealing film provides a soft non permeable foil barrier with a layer of acrylic adhesive and is recommended for use between - 80° to 120° C. The AlumaSeal 384™ fits within the raised rim of plates and has one full width end tab with no perforations (tab is not easily removed).



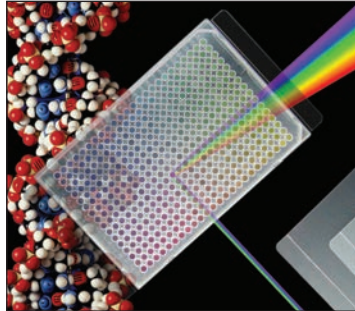
Film Material	Aluminum Foil
Film Thickness	38 µm
Adhesive Thickness	38 µm
Sealing Film Dimensions	82.5 x 137.3 mm
Length with end tabs removed	123.8 mm
Pierceability	Yes, Single, Multi channel or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

Product Code	Description	Quantity	Price	Your Price
ESCF-384-100	AlumaSeal 384™ Excel Scientific Aluminum Foil Seal, 1 x 82.5 mm End Tab, Opaque Silver, Pierceable, Non-Sterile	100/pk	<del>\$91.14</del>	\$62.76

qPCR, RT-PCR & Sitting-Drop Protein Crystallization

ThermalSeal RT™

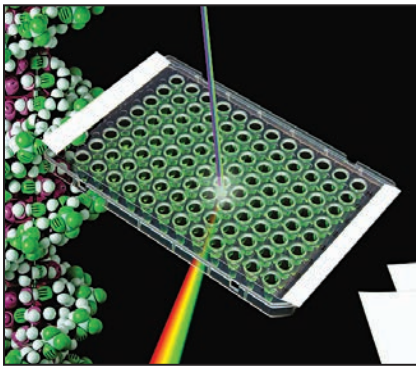
ThermalSeal RT™ heat resistant sealing films offer “Brilliant Ultra-High Optical Clarity between -40° to 120° C; they combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications. ThermalSeal RT™ sealing films have a plastic liner which is easily removed before use and contributes smoothness and extreme optical clarity to the adhesive.



Film Material	Optically Clear Grade Polyester
Film Thickness	50 µm
Adhesive Thickness	25 µm
Sealing Film Dimensions	79.4 x 142.9 mm
Length with end tabs removed	121.9 mm
Pierceability	Non Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

Product Code	Description	Quantity	Price	Your Price
ESCTS-RT2-100	ThermaSeal RT™ Excel Scientific Optically Clear Polyester Sealing Film, two end tabs, Clear, Non Pierceable, Non-Sterile	100/pk	<del>\$180.42</del>	\$124.25

ThermalSeal RTS™



Film Material	Optically Clear Grade Polyolefin
Film Thickness	50 µm
Adhesive Thickness	50 µm
Sealing Film Dimensions	78.6 x 139.7 mm
Length with end tabs removed	113.0 mm
Pierceability	Non Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

Based on polyolefin films with inert encapsulated silicone adhesives the ThermalSeal RTS™ sealing films are optically clear, provide low auto fluorescence and are ideal for real-time Q-PCR, storage, & protein crystallization 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. Adhesive on non-sealing areas of the film, such as directly over sample wells, remains encapsulated and inert. Excel ThermalSeal RTS™ films are sized to fit within the edges of raised-rim 96-well plates. Their consistent high optical clarity makes possible reproducible, reliable, and consistent DNA amplification measurements and crystal detection. Two end tabs assist in positioning the film on the plate, and the non-tacky adhesive surface simplifies handling. Easy removal of the end tabs at perforated boundaries prevents lifting and higher evaporation rates that can occur with films that overlap the plate rim.

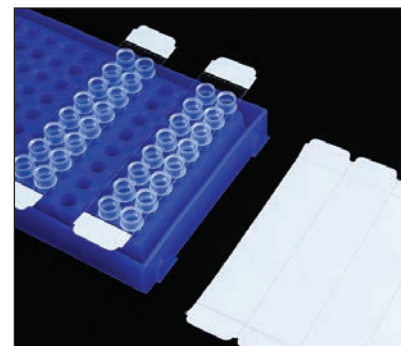
Product Code	Description	Quantity	Price	Your Price
ESCTSS-RTQ-100	ThermaSeal RTS™ Excel Scientific Optically Clear Polyolefin Sealing Film with Inert Silicone Adhesive, two end tabs, Clear, Non Pierceable, Non-Sterile	100/pk	<del>\$180.42</del>	\$124.25



### Budget & Environmentally Friendly MiniStrips™

Environmentally and Budget Friendly MiniStrips™ are designed for sealing only one or two 8-well rows at a time of either strip-well or standard plates whenever rows must be selectively protected or accessed. MiniStrips™ are supplied in sheets of four from which strips can be peeled individually or two-at-a-time for application to plates; the two perforated positioning tabs can be easily removed or sealed around the plate edge.

	SealPlate®	ThermalSeal®
Film Material	Polyester	Polypropylene
Film Thickness	50 µm	50 µm
Adhesive Thickness	25 µm	25 µm
Sealing Film Dimensions	79.4 x 146.1 mm	79.4 x 135.1 mm
Length with end tabs removed	Not Applicable	123.1 mm
Pierceability	Not Pierceable	Not Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes (Sterile Product Only)	Yes



**Please Note:**

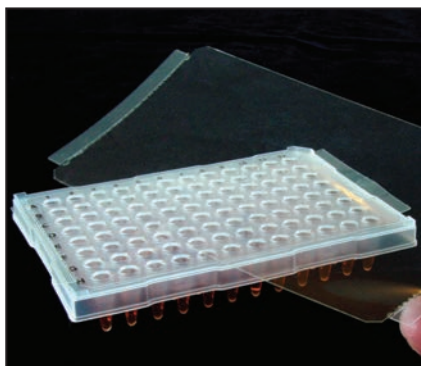
SealPlate® MiniStrips™ sealing film properties are identical to those found on page 2.

ThermalSeal® MiniStrips™ sealing film properties are identical to those found on page 4.

Product Code	Description	Quantity	Price	Your Price
ESCSP-2X8-50	SealPlate® MiniStrips™ Excel Scientific Polyester Sealing Film, Two End Tabs, Clear, Non Pierceable, Non Sterile	4/sheet, 50 sheets/pk	<del>\$54.96</del>	\$48.09
ESCSPS-2X8-50	SealPlate® MiniStrips™ Excel Scientific Polyester Sealing Film, Two End Tabs, Clear, Non Pierceable, Sterile	4/sheet, 50 sheets/pk	<del>\$73.86</del>	\$64.63
ESCTS-2X8-50	ThermalSeal® MiniStrips™ Excel Scientific Polypropylene Sealing Film, Two End Tabs, Clear, Non Pierceable, Non Sterile	4/sheet, 50 sheets/pk	<del>\$68.74</del>	\$60.15

### ThermalSeal RT2RR™ Sealing Film for Raised Rim RT-PCR Plates

ThermalSeal RT2RR™ polyester sealing films for real-time PCR are sized to fit within the edges of raised-rim 96-well plates. The same consistent ultra-high optical clarity as Excel's ThermalSeal RT™ sealing films (above) enables more reproducible, reliable, and consistent DNA amplification measurements. An inert, strong, temperature-resistant adhesive assures reliable sealing around each well. Two perforated end tabs and corners trimmed to 45° assist in positioning the sealing film, prevents lifting at the edges and higher evaporation rates that can occur with sealing films that overlap a raised rim. ThermalSeal RT2RR™ is recommended for specific DNA sequence detection in clinical diagnostics, forensic science and basic research and has a suggested temperature range of - 40° to 120° C.



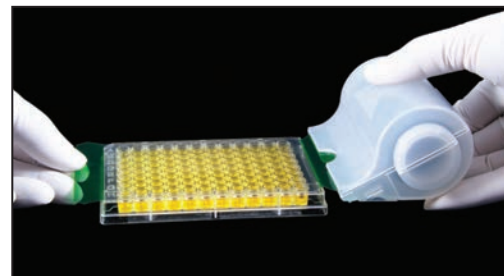
Film Material	Optically Clear Grade Polyester
Film Thickness	50 µm
Adhesive Thickness	25 µm
Sealing Film Dimensions	77.8 x 130.8 mm (Trimmed 45° Corners)
Length with end tabs removed	118.1 mm
Pierceability	Non Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

Product Code	Description	Quantity	Price	Your Price
ESCTS-RT2RR-100	ThermaSeal RT2RR™ Excel Scientific Optically Clear Polyester Sealing Film for Raised Rim Plates, two end tabs & 45° Trimmed Corners, Clear, Non Pierceable, Non-Sterile	100/pk	<del>\$180.42</del>	\$157.87

## The SealMate™ System

Excel Scientific's unique SealMate™ system provides a convenient new method for sealing standard-format microplates with adhesive films. The system includes a molded polypropylene dispenser with a hinged "clamshell" design and sealing films supplied in a novel sheeted-roll configuration.

- Convenient, easy film application for microplates
- Three times faster than sheet films
- Environmentally friendly green product: reduced waste; no protective backing to remove and discard
- Smooth lower surface for pressing film to the plate
- Available sterile and non-sterile
- Seals color coded for identification: **Green** = SealPlate®    **Red** = AeraSeal™
- Inexpensive applicator



The SealMate™ dispenser provides a protective enclosure for films on the roll prior to dispensing. It can be opened, permitting insertion of a new roll, then closed and latched securely by means of clasps at each side of its film-dispensing "bill." Individual films on the roll are delineated by non-adhesive color bands that serve as end-tabs for positioning the films on the microplates. The bands also act as markers to show when the end of one film has been reached so that the next film is not pulled prematurely from the dispenser. Each non-adhesive band contains two perforations, the first of which, bounded by a small indent at the edges, tears easily to separate the sheet being dispensed from the next sheet on the roll. The second perforation permits the end-tab to be removed from the plate once the film has been applied.

Several unique features contribute to ease and usability of the SealMate™ dispenser. A compression-brake mechanism prevents the roll from turning as the dispensed sheet is separated from the roll. The smooth lower surface can be swept across the film once applied to the plate to assure secure sealing around all wells. Thumb and forefinger notches above and below the film at the edge of the dispensing bill provide access to the non-adhesive band to facilitate pulling the next film from the dispenser. A prop on the lower surface prevents the bill from contacting the supporting surface when the dispenser is not in use. Alternatively, the dispenser can stand on one of the hubs at the roll ends during storage. The dispenser, thus parked, provides protection and keeps unused films handy for sealing subsequent plates without the need for opening small boxes or pulling individual films from plastic bags. The SealMate™ system reduces laboratory waste because the film is rolled on itself with no extra paper or plastic liner to be discarded before sealing the plate.

	For Elisa and General Incubation SealPlate™ Dispenser Film Features	For Cell & Biological Cultures AeraSeal™ Dispenser Film Features
Film Material	Polyester	Rayon (Breathable)
Film Thickness	50 µm	140 µm Total
Adhesive Thickness	25 µm	
Sealing Film Dimensions	79.4 x 146.1 mm	82.6 x 142.9 mm
Length with end tabs removed	Not Applicable	Not Applicable
Optimal Temperature Range	- 40° to 120° C	- 20° to 80° C
Pierceability	Non Pierceable	Yes, Single, Multi channel or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes (for Sterile Product only)	Yes (for Sterile Product only)

### For Elisa and General Incubation™

Product Code	Description	Quantity	Price	Your Price
ESCSM-KIT-SP*	<b>SealPlate®</b> SealMate™ Excel Scientific Plate Sealing Starter Kit, Non Sterile	each	<del>\$169.26</del>	\$148.10
ESCSM-KIT-SPS*	<b>SealPlate®</b> SealMate™ Excel Scientific Plate Sealing Starter Kit, Sterile	each	<del>\$235.20</del>	\$205.80
ESCRSMSP-2	<b>SealPlate®</b> Excel Scientific Polyester Sealing Film Roll, Two Green End Tabs, Clear, Non Pierceable, Non Sterile	100/roll, 2 rolls/pk	<del>\$156.60</del>	\$137.03
ESCRSMSP-2-S	<b>SealPlate®</b> Excel Scientific Polyester Sealing Film Roll, Two Green End Tabs, Clear, Non Pierceable, Sterile	100/roll, 2 rolls/pk	<del>\$213.62</del>	\$186.92

### For Cell & Biological Cultures™

ESCSM-KIT-B*	<b>AeraSeal™</b> SealMate™ Excel Scientific Plate Sealing Starter Kit, Non-Sterile	each	<del>\$131.78</del>	\$115.31
ESCSM-KIT-BS*	<b>AeraSeal™</b> SealMate™ Excel Scientific Plate Sealing Starter Kit, Sterile	each	<del>\$183.98</del>	\$160.98
ESCRSMB-2	<b>AeraSeal™</b> Excel Scientific Polyester Sealing Film Roll, Two Red End Tabs, Clear, Non Pierceable, Non Sterile	100/roll, 2 rolls/pk	<del>\$119.20</del>	\$104.30
ESCRSMB-2-S	<b>AeraSeal™</b> Excel Scientific Polyester Sealing Film Roll, Two Red End Tabs, Clear, Non Pierceable, Sterile	100/roll, 2 rolls/pk	<del>\$162.42</del>	\$142.12
ESCSM	SealMate™ Excel Scientific Plate Sealing Dispenser, Film Sold Separately, Non Sterile	each	<del>\$26.76</del>	\$23.42
ESCSM-S	SealMate™ Excel Scientific Plate Sealing Dispenser, Film Sold Separately, Sterile	each	<del>\$35.72</del>	\$31.26

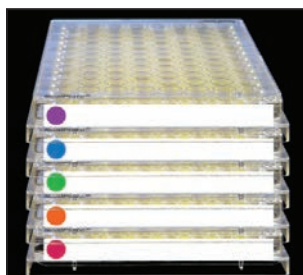
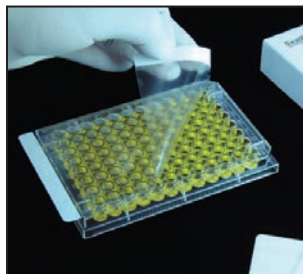
\*Kit Includes: 1 x Dispenser, 2 x Rolls of Film, 100 Sheets per Roll



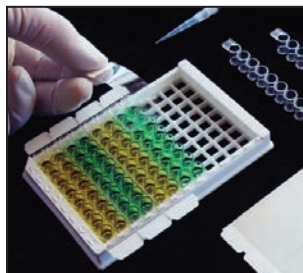
## General Incubation and Elisa Solutions

### SealPlate®

SealPlate® sealing films minimize evaporation, prevent spillage and contamination between wells, and provide a secure seal, not just a cover. The secure seal eliminates “edge effects” in sensitive ELISA assays. SealPlate® sealing films can also be used with tissue-culture plates for short-term storage, incubation, and containment of biohazards. SealPlate® films have a functional temperature range of - 40° to 120° C



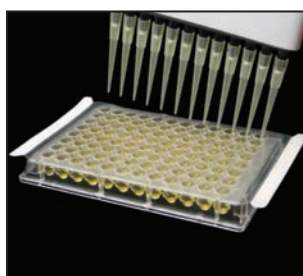
Product Code	Description	Quantity	Price	Your Price
ESC100-SEAL-PLT	SealPlate® Excel Scientific Polyester Sealing Film, Two End Tabs, Clear, Non Pierceable, Non Sterile	100/pk	<del>\$68.00</del>	\$59.57
ESCSTR-SEAL-PLT	SealPlate® Excel Scientific Polyester Sealing Film, Two End Tabs, Clear, Non Pierceable, Sterile	100/pk	<del>\$92.00</del>	\$81.27
ESCSP-IDA-10	SealPlate® Colour Tab™ Excel Scientific Polyester Sealing Film, Two White End Tabs with Assorted Colour Dots, Clear, Non Pierceable, Non Sterile	5x10/pk	<del>\$53.40</del>	\$46.80
ESCSP-IDB-100	SealPlate® Colour Tab™ Excel Scientific Polyester Sealing Film, Two White End Tabs with Blue Colour Dots, Clear, Non Pierceable, Non Sterile	100/pk	<del>\$85.50</del>	\$74.88
ESCSP-IDG-100	SealPlate® Colour Tab™ Excel Scientific Polyester Sealing Film, Two White End Tabs with Green Colour Dots, Clear, Non Pierceable, Non Sterile	100/pk	<del>\$85.50</del>	\$74.88
ESCSP-IDL-100	SealPlate® Colour Tab™ Excel Scientific Polyester Sealing Film, Two White End Tabs with Lavender Colour Dots, Clear, Non Pierceable, Non Sterile	100/pk	<del>\$85.50</del>	\$74.88
ESCSP-IDO-100	SealPlate® Colour Tab™ Excel Scientific Polyester Sealing Film, Two White End Tabs with Orange Colour Dots, Clear, Non Pierceable, Non Sterile	100/pk	<del>\$85.50</del>	\$74.88
ESCSP-IDR-100	SealPlate® Colour Tab™ Excel Scientific Polyester Sealing Film, Two White End Tabs with Red Colour Dots, Clear, Non Pierceable, Non Sterile	100/pk	<del>\$85.50</del>	\$74.88



### ThinSeal™

ThinSeal™ polyester sealing films are just 25 µm thick, clearer and marginally Pierceable with single-channel pipettes for sample recovery. ThinSeal sealing film dimensions are 79.4 x 141.0 mm.

Product Code	Description	Quantity	Price	Your Price
ESC100-THIN-PLT	ThinSeal™ Excel Scientific Polyester Sealing Film, Two End Tabs, Clear, Pierceable, Non Sterile, 100/pk	100/pk	<del>\$82.02</del>	\$71.77
ESCSTR-THIN-PLT	ThinSeal™ Excel Scientific Polyester Sealing Film, Two End Tabs, Clear, Pierceable, Sterile, 100/pk	100/pk	<del>\$109.92</del>	\$96.18



### EZ-Pierce™

EZ-Pierce™ is an easily pierceable polyethylene film with acrylic adhesive. They allow direct sample recovery with single or multichannel pipettors and robotic probes. EZ-Pierce™ films have a functional temperature range of - 40° to 90° C.

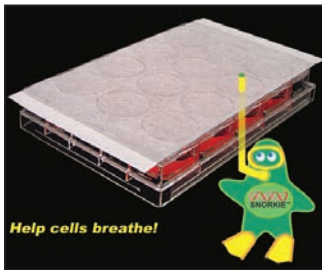
Product Code	Description	Quantity	Price	Your Price
ESCEZP-100	EZ-Pierce™ Excel Scientific Polyethylene Sealing Film, Two End Tabs, Clear, Pierceable, Non Sterile, 100/pk	100/pk	<del>\$72.10</del>	\$63.16
ESCEZPS-25	EZ-Pierce™ Excel Scientific Polyethylene Sealing Film, Two End Tabs, Clear, Pierceable, Sterile, 50/pk	50/pk	<del>\$53.30</del>	\$46.64

	SealPlate® & SealPlate® Colour Tab™	ThinSeal™	EZ-Pierce™
Film Material	Polyester	Polyester	Polyethylene
Film Thickness	50 µm	25 µm	70 µm
Adhesive Thickness	25 µm	Not Applicable	25 µm
Sealing Film Dimensions	79.4 x 146.1 mm	79.4 x 141.0 mm	82.6 x 142.9 mm
Length with end tabs removed	Not Applicable	Not Applicable	Not Applicable
Pierceability	Not Pierceable	Yes, Single channel	Yes, Single, Multi channel and Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes (Sterile Product Only)	Yes (Sterile Product Only)	Yes (Sterile Product Only)



**Cell & Biological Culture Solutions**

**AeraSeal™**



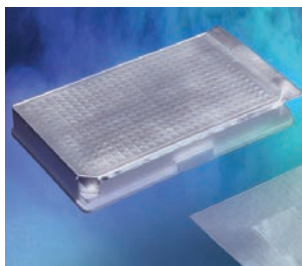
Film Material	Rayon (Breathable)
Film Thickness	140 µm Total
Adhesive Thickness	
Sealing Film Dimensions	82.6 x 142.9 mm
Length with end tabs removed	Not Applicable
Pierceability	Yes, Single, Multi channel, Serological Pipette or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes (Sterile product only)

AeraSeal™ offers a thick hydrophobic porous rayon sealing film including medical-grade adhesive for tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth. AeraSeal™ sealing films minimize cross-contamination, spillage and evaporation and operate best between - 20° to 80° C. They allow uniform air and CO<sub>2</sub> exchange for all wells, unlike plate lids which favor exchange for wells near the plate edges.

Product Code	Description	Quantity	Price	Your Price
ESCB-100	AeraSeal™ Excel Scientific Polyester Sealing Film, Two End Tabs, Opaque, Pierceable, Non Sterile	100/pk	<del>\$103.62</del>	<b>\$90.67</b>
ESCBS-25	AeraSeal™ Excel Scientific Polyester Sealing Film, Two End Tabs, Opaque, Pierceable, Sterile	2x25/pk	<del>\$70.62</del>	<b>\$61.79</b>

**Cold Storage Solutions**

**AlumaSeal CS™**



Film Material	Aluminum Foil
Film Thickness	50 µm
Adhesive Thickness	50 µm
Sealing Film Dimensions	82.6 x 132.6 mm
Length with end tabs removed	Not Applicable
Pierceability	Yes, Single, Multi channel or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	Yes

AlumaSeal CS™ sealing films are specially formulated aluminum foil sealing films with a layer of acrylic adhesive that withstands cold storage at temperatures to -80°C. Unlike other sealing films in this family, AlumaSeal CS™ sealing films are not recommended for PCR or thermocycling. A single 9.5 mm non-perforated end tab simplifies application. Simply hold the tab and strip the backing from the body of the sealing film as it lies on the plate to avoid curling. The optimal temperature range for this product to significantly reduce evaporation is - 80° to 120° C

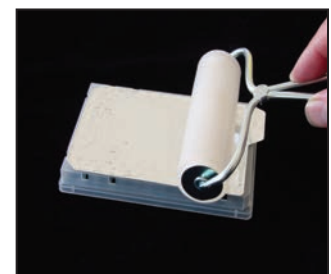
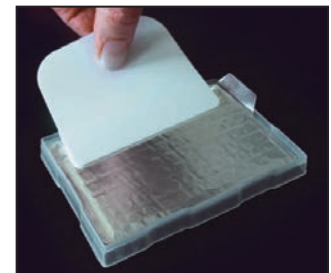
Product Code	Description	Quantity	Price	Your Price
ESFC-100	AlumaSeal CS™ Excel Scientific Aluminum Sealing Foil, 1 x 9.5 mm Full Width End Tab, Silver, Pierceable, Non Sterile	100/pk	<del>\$114.70</del>	<b>\$100.36</b>
ESFC-25	AlumaSeal CS™ Excel Scientific Aluminum Sealing Foil, 1 x 9.5 mm Full Width End Tab, Silver, Pierceable, Sterile	2x25/pk	<del>\$80.94</del>	<b>\$70.82</b>

**Accessories**

**Sealing Paddle & Roller**

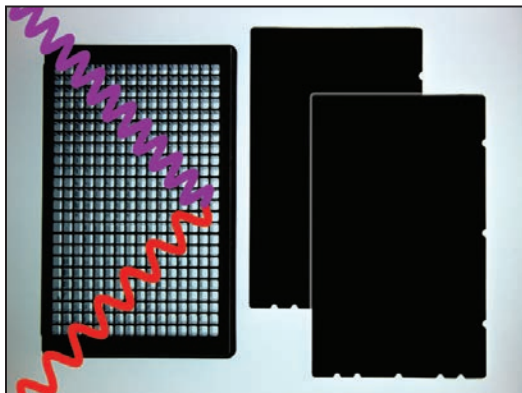
Using a paddle or roller makes sealing your plates simple, quick & worry free. Paddles are optimized for raised rim plates while the 4" soft rubber roller is designed flat top plates.

Product Code	Description	Quantity	Price	Your Price
ESCPDL-5	Excel Scientific Film Sealing Paddle, Film Sold Separately, Non Sterile	each	<del>\$8.32</del>	<b>\$7.28</b>
ESCRL-PLT-01	Excel Scientific Film Sealing Roller, 4" wide, Soft White Rubber Drum with metal Handle, Film Sold Separately, Non Sterile	each	<del>\$41.44</del>	<b>\$36.26</b>





## Fluorescence, Photo-protection, Luminescence and Microscopy Solutions



### AbsorbMax™ for Fluorescence & Photo-Protection

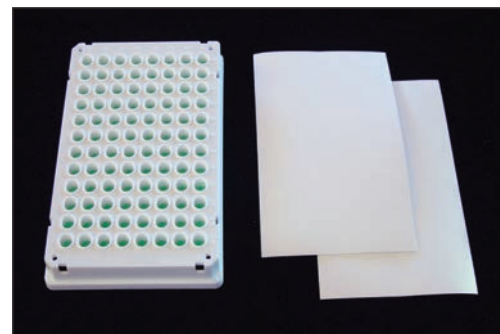
AbsorbMax™ sealing films are a thick black vinyl film with an acrylic adhesive for use with 96-well, 384-well, and 1536-well black microplates. A split backing aids in applying the sealing film properly. Edge cut-outs assist in positioning and accommodate ribs on the plate bottom. The light-blocking and absorbing properties of AbsorbMax™ sealing films make them ideal for protecting light-sensitive samples during storage. In fluorescence applications they reduce stray light and well-to-well crosstalk. For top-reading fluorescence applications, apply the black sealing film to the plate bottom or use as a top seal for bottom-reading fluorescence. AbsorbMax™ sealing films will fit within the rim of raised-rim plates and have a recommended temperature range of -40 ° to +80 °C.

Product Code	Description	Quantity	Price	Your Price
ESCBK-50	AbsorbMax™ Black Light Absorbing Vinyl Sealing Film, No End Tabs, Black, Not Pierceable, Non Sterile	50/pk	<del>\$60.36</del>	\$52.82

	AbsorbMax™	BrightMax™
Film Material	Black Light Absorbing Vinyl	White Reflective Vinyl
Film Thickness	203 µm	203 µm
Adhesive Thickness	37 µm	37 µm
Sealing Film Dimensions	76.2 x 114.3 mm	76.2 x 116.0 mm
Length with end tabs removed	Not Applicable	Not Applicable
Pierceability	Not Pierceable	Not Pierceable
Certified RNase, DNase & Nucleic Acid Free	No	No

### BrightMax™ for Luminescence and Microscopy Solutions

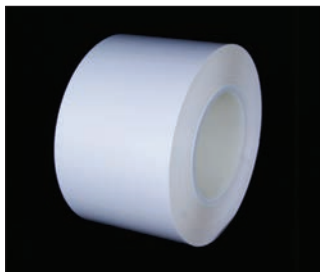
BrightMax™ sealing films are thick white vinyl films with an acrylic adhesive for use with white microplates. A split backing aids in applying the sealing film properly to the top or bottom of your plates. The light-reflective properties of BrightMax™ plate-sealing films on clear-bottom plates maximize sensitivity of bioluminescence and chemiluminescence assays in bottom-reading illuminometers. White films also have application as a backing matrix for microscopy of punch-out samples from filter plates, for example in ELISPOT assays. BrightMax™ films have a recommended temperature range of - 40° to 80° C.



Product Code	Description	Quantity	Price	Your Price
ESCWT-50	BrightMax™ White Light Reflecting Vinyl Sealing Film, No End Tabs, White, Not Pierceable, Non Sterile	50/pk	<del>\$41.68</del>	\$36.47

**Automation Solutions**

**Roll-Seal™ Film Rolls**



Excel Scientific now offers adhesive sealing films on Roll-Seal™ rolls for use with high-throughput automated microplate sealers. Film rolls, constructed on three-inch-diameter plastic cores, are compatible with most common adhesive sealers (Brandel, Thermo-Fisher/Abgene, FluidX, KBiosystems). The Roll-Seal™ format provides reliable and efficient sealing at a lower cost per plate with minimal user intervention. Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion.

- Made in North America
- Fast, efficient, high-throughput sealing; 2.5-5 seconds/plate; no handling and backing removal from individual sheets
- Hands-free; reduces chance of mishap or contamination; more uniform sealing from plate-to-plate
- Heat-free; no high temperatures to damage sensitive samples or warp plates and cause robotic handling problems
- Especially convenient when working with foils; avoids curling that occurs with individual sheets
- Economical; lower cost per plate than individual sheet seals or heat-seal films
- Easier peel for removal compared to many heat-seal films
- High-precision dispensing with automated sealers; consistent positioning on plates
- Compatible with most current adhesive SBS plate sealers
- Static-free manufacturing and packaging facilitates alignment and adhesion
- Protective packaging prevents damage during shipping
- Plastic cores eliminate corrugate fiber dust

**Roll-Seal™ adhesive seals are currently available in three sealing materials:**

**ThermalSeal RTS™ high-vapor-barrier, clear polyolefin with ultra-strong pressure-sensitive silicone adhesive for qPCR, sitting-drop protein crystallization, HTS, storage and general incubation applications**  
 (For more information on ThermalSeal RTS™ film properties, see page 4)

- DMSO resistant
- Nuclease-, nucleic acid-, and pyrogen-free
- Recommended for real-time PCR, sitting-drop protein crystallization, HTS and storage
- Provides as strong a bond to the plate as heat-seal films without the drawbacks of heat

**AlumaSeal® pierceable aluminum foil with pressure-sensitive acrylic adhesive for PCR, HTS and cold storage**  
 (For more information on AlumaSeal™ film properties, see page 3)

- DMSO resistant
- Easily Pierceable for sample recovery
- Nuclease-, nucleic acid-, and pyrogen-free
- Recommended for PCR, HTS, and cold storage

**AeraSeal™ breathable rayon films for cell and tissue culture** (For more information on AeraSeal™ film properties, see page 6)

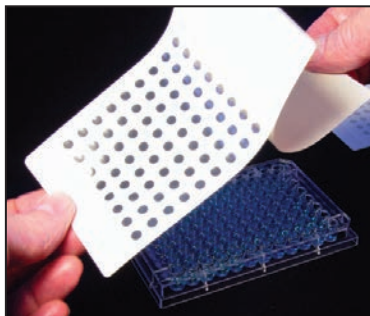
- Non-cytotoxic, highly gas permeable
- Easily Pierceable for sample recovery

Product Code	Description	Quantity	Price	Your Price
ESCRRTS-79x65	ThermalSeal™ Excel Scientific Automated Sealing Film Roll, 79 mm x 65 m, 3" Plastic Core, Clear, Pierceable, Non Sterile, Anti-Static Packing, 540 seals/roll	1 roll/pk	<del>\$894.70</del>	\$782.86
ESCRF-80x100	AlumaSeal® Excel Scientific Automated Aluminum Sealing Foil Roll, 80 mm x 100 m, 3" Plastic Core, Opaque, Pierceable, Non Sterile, Anti-Static Packing, 830 seals/roll	1 roll/pk	<del>\$583.50</del>	\$510.56
ESCRB-81x100	AeraSeal™ Excel Scientific Automated Sealing Film Roll, 81 mm x 100 m, 3" Plastic Core, Opaque, Pierceable, Non Sterile, Anti-Static Packing, 830 seals/roll	1 roll/pk	<del>\$661.30</del>	\$578.64



**Robotics and High Throughput Processing Solutions**

**Zone-Free™ Sealing Films**



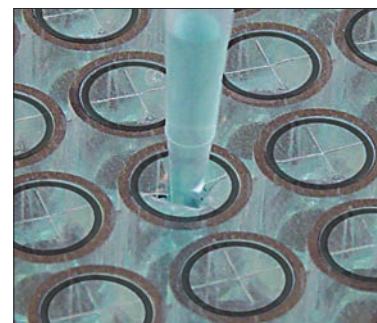
The inert and chemical resistant Zone-Free™ seal protects your samples with a polyethylene film upper layer and an inert white polypropylene and acrylic adhesive sublayer. This easy-piercing sealing film allows direct sample recovery with single or multichannel pipettors and robotic probes. The adhesive-free zone above each well prevents adhesive fouling of the pipet tip or probe, ultimately minimizing the amount of adhesive that comes into contact with the sample. Recommended temperature range is – 40° to 90° C.

Product Code	Description	Quantity	Price	Your Price
ESCZAF-PE-50	Zone-Free™ Excel Scientific Polyethylene Sealing Film, Two End Tabs, Clear, Pierceable, Non Sterile	100/pk	<del>\$144.32</del>	\$126.28

	Zone-Free™	X-Pierce™
Film Material	Polyethylene	Precut Vinyl
Film Thickness	70 µm	89 µm
Adhesive Thickness	26 µm	18 µm
Sealing Film Dimensions	79.4 x 142.9 mm	79.4 x 145.5 mm
Length with end tabs removed	Not Applicable	Not Applicable
Pierceability	Yes, Single, Multi channel or Robotic Probe Pierceable	Yes, Single, Multi channel or Robotic Probe Pierceable
Certified RNase, DNase & Nucleic Acid Free	No	No

**X-Pierce™ Precut Pierceable Sealing Films**

X-Pierce™ is extremely useful for protecting your samples from contamination over time as your procedure requires you to add reagents. X-Pierce™ sealing films are comprised of a thick vinyl with a thick adhesive layer, designed for temporary protection from contamination and evaporation for samples in 96-well plates. A precut "X" over each well creates four flaps that easily bend downward when pushed by a robotic probe or pipet tip, allowing sample access without coring or adhesive fouling. A thin adhesive layer and special hairline cuts separating the X-Pierce flaps combine to prevent probes from contacting adhesive and becoming occluded. The flaps return to their original position after sampling for continued protection. For long-term sample protection after sampling, a continuous sealing film should be applied as a second layer. Recommended Temperature Range for best results is – 40° to 90° C.



Product Code	Description	Quantity	Price	Your Price
ESCXP-100	X-Pierce™ Excel Scientific Precut Vinyl Sealing Film, Two End Tabs, Clear, Pierceable, Non Sterile	100/pk	<del>\$130.76</del>	\$114.42
ESCXPS-25	X-Pierce™ Excel Scientific Precut Vinyl Sealing Film, Two End Tabs, Clear, Pierceable, Sterile	50/pk	<del>\$81.02</del>	\$71.59

Diamed is proud to announce this new alliance with Excel Scientific “The Plate-Sealing and Reagent Handling Experts”. Excel Scientific has provided the highest quality products for many years and are one of our industries’ most innovative leaders in films and sealing products.

## Introductory Offer

When you place your next order for Diamed products, please keep in mind the following; by adding EXCEL Scientific products to those you would regularly order and use from Diamed, receive the following discount based upon the number of different product categories in your order.

### Discount Structure

Number of Categories	2	3	4 or more
Additional Discount	2.5%	5 %	7.5 %



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Reagents, Kits & PCR

Excel12P-vA18-2013

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