

# PierceASeal Foil™

## IST-106 Heat Sealing Film

<b>Product Description</b>	A pierceable foil seal with easy sealing surface identification and high solvent resistance including DMSO. The film is non-peelable, pierceable and re sealing is permissible.	<b>Physical Properties</b>	Very flexible foil, not easily creased. Temperature Range: -80°C to 120°C.
<b>Visual Description</b>	Metallic reflective foil, with both sides appearing very similar. Dashed line denotes the upper surface.	<b>Application</b>	PCR, compound storage, sample shipping

### Test procedures

<b>Mass Loss</b>	Confirming the materials ability to resist high temperatures
<b>Details:</b> Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. <b>Equipment:</b> ABI Thermocycler, Precision Balance.	
<b>Pierce</b>	Measuring the force required to push a standardised needle through the material via compression measuring equipment
<b>Details:</b> 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. <b>Equipment:</b> Instron 3343 Tensometer.	
<b>Low Temp. Seal Test</b>	Confirming the materials ability to resist low temperatures
<b>Details:</b> Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. <b>Equipment:</b> Laboratory Cold storage unit.	

### Recommended Storage Conditions:

Store in a cool place. Avoid direct exposure to sunlight.  
It is recommended to use the seals within the expiry date shown on the product.  
Five years from DOM when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging

### Sealing Temp + Dwell Times:

Temperature and Dwell Time: 175°C, 2 seconds.

### Plate Types:

Polypropylene(PP), Polystyrene (PS)

### Recommended Sealing Equipment:

- \*Manual heat sealers
- \*\* Automated roll-fed heat sealers
- \*\*\* Agilent VII Plateloc, REMF (LHS/SHS)

### Ordering:

Part Number	Format	Presentation	
IST-106-078LR**	LabRoll™	1 Roll	610M x 78 mm
IST-106-078SR**	Sterile LabRoll™	1 Roll	610M x 78 mm
IST-106-115SR***	Sterile LabRoll™	1 Roll	500M x 115 mm
IST-106-115LR***	VII LabRoll™	1 Roll	500M x 115 mm
IST-106-078LS*	LabSheet™	100 Sheets	125 mm x 78 mm
IST-106-078SS*	LabSheet™	100 Sheets	125 mm x 78 mm
IST-106-078TR*	Trial LabRoll™	1 Roll	5M x 78 mm
IST-106-115TR	Trial LabRoll™	1 Roll	5M x 115 mm
IST-106-078TS	Trial LabSheet™	5 Sheets	125 mm x 78 mm