

PierceASeal Foil™

IST-106 Heat Sealing Film

Product Description	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.	Physical Properties	Very flexible foil, not easily creased. Temperature Range: -80°C to 120°C.
Visual Description	Metallic reflective foil, with both sides appearing very similar. Dashed line denotes the upper surface.	Application	PCR, compound storage, sample shipping

Test procedures

Mass Loss	Confirming the materials ability to resist high temperatures
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.	
Pierce	Measuring the force required to push a standardised needle through the material via compression measuring equipment
Details: 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment: Instron 3343 Tensometer.	
Optical	Determining the materials optical clarity by measuring the transmission of emissive dye through the material
Details: Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment: BMG Labtech -FluroStar.	
Peel	Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment
Details: Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment: Instron 3343 Tensometer.	
Low Temp. Seal Test	Confirming the materials ability to resist low temperatures
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: 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 three years from the date of purchase.
Three years 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, REMP (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