

# Gas PermASeal™

## IST-110 Heat Sealing Film

<b>Product Description</b>	Non-woven gas permeable peelable seal for cell & seed culture, the Seal is Porous, Gas Permeable and a Barrier to Solid Contaminants.	<b>Physical Properties</b>	Temperature Range: 20°C to +80°C. Compatibility: Polypropylene (PP), Polystyrene (PS).
<b>Visual Description</b>	White non-woven. Seal side has a shiny lacquer coating.	<b>Application</b>	Short term Incubation, agriculture and seed storage, Insect storage and Cell Culture, for use in autoclaves..

### Test procedures

<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>Peel</b>	Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment
<b>Details:</b> Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test.	
<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 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	
		Quantity	Dimensions
IST-110-078LR**	LabRoll™	1 Roll	200M x 78 mm
IST-110-078SR**	Sterile LabRoll™	1 Roll	200M x 78 mm
IST-110-115SR***	Sterile LabRoll™	1 Roll	200M x 115 mm
IST-110-115LR***	VII LabRoll™	1 Roll	200M x 115 mm
IST-110-078LS*	LabSheet™	100 Sheets	125 mm x 78 mm
IST-110-078SS*	LabSheet™	100 Sheets	125 mm x 78 mm
IST-110-078TR*	Trial LabRoll™	1 Roll	5M x 78 mm
IST-110-115TR	Trial LabRoll™	1 Roll	5M x 115 mm
IST-110-078TS	Trial LabSheet™	5 Sheets	125 mm x 78 mm