

ClearASeal Peel™

IST-101 Heat Sealing Film

Product Description	A clear film with good optical clarity and moderate solvent resistant properties. The film is peelable and non-pierceable.	Physical Properties	Flexible plastic, difficult to crease, upper surface feels very smooth, sealing side has a slight rough feel. Temperature Range: -80°C to +80°C.
Visual Description	Clear and thick plastic seal. Sealing surface on inside of roll and is less reflective.	Application	qPCR, short term compound storage.

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.	
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), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC), Polycarbonate (PC)

Recommended Sealing Equipment:

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

Ordering:

Part Number	Format	Presentation	
IST-101-078LR**	LabRoll™	1 Roll	500M x 78 mm
IST-101-078SR**	Sterile LabRoll™	1 Roll	500M x 78 mm
IST-101-115SR***	Sterile LabRoll™	1 Roll	350M x 115 mm
IST-101-115LR***	VII LabRoll™	1 Roll	350M x 115 mm
IST-101-078LS*	LabSheet™	100 Sheets	125 mm x 78 mm
IST-101-078SS*	LabSheet™	100 Sheets	125 mm x 78 mm
IST-101-078TR*	Trial LabRoll™	1 Roll	5M x 78 mm
IST-101-115TR	Trial LabRoll™	1 Roll	5M x 115 mm
IST-101-078TS	Trial LabSheet™	5 Sheets	125 mm x 78 mm