

# QuickSeal Foil PCR™

## IST-127 Self Adhesive Sealing Film

<b>Product Description</b>	An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminum foil with acrylic adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue.	<b>Physical Properties</b>	The seal has solvent resistance and can be removed, leaving behind no adhesive residue. Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting materials quickly or at high temperature (180°C). Temperature Range: -80°C to +120°C.
<b>Visual Description</b>	Thin, Metallic, Reflective, White Liner.	<b>Application</b>	PCR and sample storage.

### 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>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.	
<b>Solvent</b>	Evaluating the materials resistance to solvents (DMSO used as an aggressive standard)
<b>Details:</b> Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. <b>Equipment:</b> Laboratory Cold storage unit, DMSO solution.	

<b>Recommended Storage Conditions:</b>	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
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<b>Sealing Temp + Dwell Times:</b>	Temperature and Dwell Time: 175°C, 2 seconds.
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<b>Plate Types:</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC), Polycarbonate (PC)
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<b>Recommended Sealing Equipment:</b>	KAPS 500/Sealit 100/Manual Roller IST-202-102HR
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Ordering:			
Part Number	Format	Presentation	
IST-127-080LR	LabRoll™	1 Roll	200M x 80mm
IST-127-080SR	Sterile LabRoll™	1 Roll	200M x 80mm
IST-127-080LS	LabSheet™	100 Sheets	130 mm x 80 mm
IST-127-080SS	Sterile LabSheet™	100 Sheets	130 mm x 80 mm
IST-127-080TS	Trial LabSheet™	5 Sheets	130 mm x 80 mm