

QuickSeal PCR™ IST-120 Transparent, Peelable, Adhesive Film for PCR

Product Description

A strong transparent adhesive film which is suitable for PCR. The seal is non-pierceable and is peelable.

Visual Description

A transparent self-adhesive seal consisting of a PET backing and a modified acrylic adhesive.

Physical Properties

High holding power even at elevated temperatures. Superior converting performance due to strong PET backing and reduced adhesive mass flow. Temperature Range: -20°C to +110°C

Application

PCR, low temperature storage and transportation.

Test Procedures:

Mass Loss	Confirming the materials ability to resist high temperatures	Results:	PASS
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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.	Results:	N/A
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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	Results:	N/A
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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.	Results:	PASS
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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	Results:	PASS
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Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. **Equipment:** Laboratory Cold storage unit.

Solvent	Evaluating the materials resistance to solvents (DMSO used as an aggressive standard)	Results:	PASS
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Details 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. **Equipment** Laboratory Cold storage unit, DMSO solution.

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.

Plate Types:

Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

Recommended Sealing Equipment:

KAPS 500/Sealit 100/Manual Roller IST-202-102HR

Ordering:

Part Number	Format	Presentation	
IST-120-080LR	Std LabRoll™	1 Roll	100M × 80mm
IST-120-080SR	Sterile LabRoll™	1 Roll	100M × 80mm
IST-120-080LS	Std LabSheet™	100 Sheets	135mm × 80mm
IST-120-080SS	Sterile LabSheet™	100 Sheets	135mm × 80mm
IST-120-080TS	Trial LabSheet™	5 Sheets	135mm × 80mm