QuickSeal qPCR Crystal™

IST-121 Self Adhesive Sealing Film

Product Description	A transparent, optically clear, DMSO resistant, non-tacky film which adheres only when pressure is applied. It is non pierceable and peelable.	**Physical Properties**	Pressure sensitive adhesive tape, so the seal side doesn't feel sticky, mainly used for bonding materials to various substrates. Temperature Range: -40°C to +110°C.
Visual Description	Clear plastic, reflective, glossy on the top. Very thin and light and doesn't crease easily.	**Application**	qPCR (94 or 384well) and situations where fluorescence is experienced and optical clarity is required

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

Plate Types:

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

Ordering:

Part Number	Format	Presentation	
IST-121-080LR	LabRoll™	1 Roll	100M × 80 mm
iST-121-080SR	Sterile LabRoll™	1 Roll	100M x 80mm
IST-121-080LS	LabSheet™	100 Sheets	140 mm × 80 mm
IST-121-080SS	Sterile LabSheet™	100 Sheets	140 mm × 80 mm
IST-121-080TS	Trial LabSheet™	5 Sheets	140mm × 80 mm

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