

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: -80°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 five years from the date of purchase.
Five 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 x 80 mm
iST-121-080SR	Sterile LabRoll™	1 Roll	100M x 80mm
IST-121-080LS	LabSheet™	100 Sheets	140 mm x 80 mm
IST-121-080SS	Sterile LabSheet™	100 Sheets	140 mm x 80 mm
IST-121-080TS	Trial LabSheet™	5 Sheets	140mm x 80 mm