

PeelASeal Foil SUPER™ IST-114 DMSO Resistant, Peelable Foil, Heatseal for All Plate Types

Product Description

A “stick to all” peelable, foil laminate heat-seal film which is suited for all plate types - PP, PS and COC. The film has a good liquid barrier and high resistance to solvents (DMSO). It is peelable (from -80oC freezer) and is non-pierceable.

Visual Description

Metallic with upper surface gloss white. Seal surface metallic burnished foil.

Physical Properties

Flexible, not easily creased. Thicker than IST-104.
 Temperature Range: -80°C to +110°C

Application

PCR, low temperature, short term compound storage, short term room temperature compound storage.

Test Procedures:

Mass Loss	Confirming the materials ability to resist high temperatures	Results:	PASS
------------------	--	-----------------	-------------

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
---------------	--	-----------------	------------

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
----------------	--	-----------------	------------

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
-------------	--	-----------------	-------------

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
----------------------------	---	-----------------	-------------

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
----------------	---	-----------------	-------------

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 the expiry date shown on the label.

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) and non-binding coated plates.

Recommended Sealing Equipment:

- * Efly, Kseal, 4s2
- ** Wasp, Thermo ALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS)
- *** Agilent VII Plateloc, REMP (LHS/SHS)

Ordering:

Part Number	Format	Presentation	
IST-114-078LR**	Std LabRoll™	1 Roll	610M × 78 mm
IST-114-078SR**	Sterile LabRoll™	1 Roll	610M × 78 mm
IST-114-115LR***	VII Std LabRoll™	1 Roll	500M × 115 mm
IST-114-115SR***	Sterile VII LabRoll™	1 Roll	500M × 115 mm
IST-114-078LS*	Std LabSheet™	100 Sheets	125 mm × 78 mm
IST-114-078SS*	Sterile LabSheet™	100 Sheets	125 mm × 78 mm
IST-114-078TR	Trial LabRoll™	1 Roll	5 M × 78 mm
IST-114-115TR	Trial LabRoll™	1 Roll	5 M × 115 mm
IST-114-078TS	Trial LabSheet™	5 Sheets	125 mm × 78 mm

Composition: PET 10 μ m / Print/ ADH / Aluminium 12 μ m / ADH / Rayopeel[®] Super NG 40 μ m

