

## RBX-107 Heat Sealing Film PierceASeal Foil PS™

### Product Description

A high grade foil with good solvent resistance including DMSO, easy sealing surface identification with multiple sealing and resealing properties. The seal is peelable, Polystyrene only and pierceable.

### Visual Description

Metallic reflective foil, with both sides appearing very similar. Printed line denotes upper surface.

### Plate Types:

Polypropylene (PP), Polystyrene (PS)

### Recommended Sealing Equipment:

### Physical Properties

Very flexible foil, not easily creased. Temperature Range: -20°C to 110°C.

### Application

PCR, low temperature, short term room temperature compound storage and sample shipping.

### Suggested Parameters:

Temperature 175°C Time: 2 seconds.

Manual heat sealers, (hand fed type) & Automated roll-fed heat sealers:

Wildcat  
Kbiosystems  
Brooks / 4titude  
Agilent

## 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 Tensiometer.

### Pierce

Measuring the force required to push a standardised needle through the material via compression measuring equipment

#### 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 Tensiometer.

### Low Temp. 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.

### Solvent

Evaluating the materials resistance to solvents (DMSO used as an aggressive standard)

#### 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.

### 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

Ordering:			
Part Number	Format	Presentation	
RBX-1077801	LabRoll™	1 Roll	610M x 78 mm
RBX-1077801S	Sterile LabRoll™	1 Roll	610M x 78 mm
RBX-10711501	Sterile LabRoll™	1 Roll	500M x 115 mm
RBX-10711501S	VII LabRoll™	1 Roll	500M x 115 mm
RBX-1077802	LabSheet™	100 Sheets	125 mm x 78 mm
RBX-1077802S	LabSheet™	100 Sheets	125 mm x 78 mm
RBX-1077801T	Trial LabRoll™	1 Roll	5M x 78 mm
RBX-10711502T	Trial LabRoll™	1 Roll	5M x 115 mm
RBX-1077802T	Trial LabSheet™	5 Sheets	125 mm x 78 mm

