



Baltimore Innovations Ltd
Wessex Road, Jacksons Business Park
Bourne End, Buckinghamshire
SL8 5DT, United Kingdom
Tel: +44 (0)1628 531 900
Fax: +44 (0)1628 531 100
Email: Sales@BaltimoreInnovations.co.uk
Web: www.baltimoreinnovations.co.uk

Barrier Foil Box & Drum Liners

Material Code: BIL/400

Protection from Moisture or Corrosion Damage

Product Information

1. **PRODUCT DESCRIPTION:**

A high performance Barrier Foil constructed with an overall foil thickness of 125 (μ) microns by laminating together 3 plies using a bonding layer coating. The net result of the material's construction is a flexible barrier with the lowest known water vapour transmission rate.

2. **PRODUCT CLASSIFICATION:**

Barrier Foil manufactured from materials approved for food contact under the appropriate F & D Regulations and Defence Standards 81-75 / issue 2.

3. **TYPICAL PROPERTIES:**

The following general data on flexible barrier laminate material is given for information purposes only: Note overall film thickness subject to +/- 5%

Description:	Construction:	Laminate Layer :
Outer foil:	12.0 μ PET	Mechanical strength / waterproof
Internal Coating:		Bonding Layer
Inner Foil Laminate:	8.0 μ Aluminium foil	Key Barrier
Internal Coating:		Bonding Layer
Inner Surface:	100.0 μ white LLDPE	Heat Sealable / Flexible Barrier Material
Overall thickness	125 microns +/- 5%	
Text:	Blank	
Dimensions:	To suit boxes or drums accordingly	

4. **PACKING:**

Flat packed with folds up to 100 foil liners
cartons, in suitably strong cardboard outer
identified with description, component number,
of fabrication, batch #, and quantity.

B A L T I M O R E

per
cartons
date

5. TECHNICAL VALUES & PERFORMANCE:

Basic Weight (g/m ²)	-	140 Nominal	ISO 536
Tensile Strength	-	MD 3.5 KN/M CD 3.5 KN/M	DIN 53 455 DIN 53 455
Puncture Strength	-	28 N/cm	DIN 53 455
Sealing Conditions	-	180°c / 2 Seconds	
Sealing Tensile Strengths	-	28 N/cm	DIN 53 455
Water Vapour Permeability-	<0.05gms / m ² / 24hrs		
Oxygen Transmission -	0.001cc / m ² / 24hrs		

Notes: MD = Machine Direction

CD = Cross Direction

Ambient MVTR Conditions = 25°C, 75% Relative Humidity.

6. RECOMMENDED APPLICATIONS:

Primarily used for protection of Food, Pharmaceuticals, Vitamins, Diagnostics Kits, Medical Devices, Healthcare Products, Chemicals, Chemical Intermediates, Plastics, Pigments, etc. and generally where products need to be protected from the formation of bacterial growth, mould, and mildew. Whilst maintaining product integrity, stability and extending shelf-life for complete climatic protection. And generally used in conjunction with Desiccants, such as Silica Gel, Molecular Sieves, Activated Carbon, and Speciality Absorbers for nuisance molecules such as O₂, CO₂, Ethylene, Formaldehyde, etc.

7. STORAGE RECOMMENDATIONS:

Storage under normal conditions of temperature, humidity and pressure in a dry warehouse is recommended.

8. OTHER INFORMATION:

We hope the information given here will be helpful. It is based on data and knowledge, which we believe to be true and accurate and is offered for the user's consideration, investigation and verification. Accordingly, save in the event of gross negligence or wilful misconduct of our agents and ourselves we will not be liable for any damages resulting from errors, omissions or non-compliance of the information set forth herein. Further, please read all statements, recommendations or suggestions in conjunction with our General Conditions of Delivery, Performance and Payment, which limit our liability with respect to all goods, supplied by us. Test methods are available on request.