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BARRIER FOIL BAG **Material Code BIL/500NS** **Barrier Foil Bag for Protection from Moisture**

1. PRODUCT DESCRIPTION:

A high performance Barrier Foil Bag fabricated on automatic machines from large rolls cut to size into individual flat bags or pouches and heat sealed with one end open. The barrier foils are constructed with an overall foil thickness of 103 (μ) microns by laminating together 3 plies using adhesives or extrusion coating. The net result of the material's construction is a flexible barrier with the lowest known water vapour transmission rate.

2. PRODUCT CLASSIFICATION:

The Barrier Foil is manufactured from materials which are approved for food contact under the appropriate Food & Drug Regulations and Food Contact Standards: FDA 21 CFR, EC Directive 2002/72 and 89/109.

3. TYPICAL PROPERTIES:

The following general data on flexible barrier laminate material is given for information purposes only:

Description:	Construction:	Laminate Layer :
Outer foil:	12 μ PET	Mechanical strength / waterproof
Internal Coating:	1.5 μ	Bonding Layer
Inner Foil Laminate:	7 μ Aluminium foil	Key Barrier
Internal Coating:	1.5 μ	Bonding Layer
Inner Surface:	80 μ white LDPE	Heat Sealable / Flexible Barrier Material
Total Thickness	102 μ	+ / - 10%
Text:	Blank	
Dimensions:	External Length:	615mm (+/- 15mm)
	External Width:	535mm (+/- 15mm)
	Seam Width:	12mm (+/- 2mm)
Sealing Conditions:	Temperature:	180°C - 220°C
	Dwell Time:	2 seconds
	Pressure:	2 bar (28.4 psi)
	Approx. Strength:	60N / 15mm @ 180°C

4. TECHNICAL VALUES & PERFORMANCE:

Basic Weight: (g / m ²)	112	EN 22 286
Yield:	8.26 sq. metres/kg	
MVTR:	<0.05gms/m ² /24hr	DIN 53 122
Tensile strength:	MD 58 N/15	ISO 527 - 3
	CD 57 N/15	ISO 527 - 3
Elongation:	MD 50%	ISO 527 - 3
	CD 32%	ISO 527 - 3
Tear Strength:	MD 30 N	DIN 53 363
	CD 45%	DIN 53 363
Sealing Strength:	approx. 35-40 N / 15mm	
MVTR:	<0.05gms / m ² / 24 hours	DIN 53 122
Temperature Resistance:	-40° C to + 80 ° C	

5. 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 Adsorbers for nuisance molecules such as O₂, CO₂, Ethylene, Formaldehyde, etc.

6. PACKAGING INFORMATION:

In suitably strong cardboard outer cartons. Cartons will be identified with description, component number, date of fabrication, batch #, and quantity.

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, but must not be regarded as forming a specification. 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.