

# ESD MOISTURE BARRIER



## HB6000 ESD Moisture Barrier Laminate

### Construction

Antistatic layer/ Polyester/ Aluminium Foil/ Polyethylene/ Antistatic Layer

HB6000 is a polyester/aluminium foil based moisture barrier laminate designed for ESD applications. The construction has been designed to minimize some forms of contamination including outgassing and non-volatile residues. It is free of chlorinated solvents, primary amines, amides, and silicone compounds.

### Physical Properties

<u>Property</u>	<u>Test Method</u>	<u>Imperial</u>	<u>Metric</u>
Thickness – Average	ASTM D374	6.4 mil	162.56 µm ± 10%
Optical Density - Average	Densitometer (MPET only)	>5.0	
Basis Weight - Average		104.6lb/ream	170.4g/m <sup>2</sup> ± 10%
Tensile Strength	ASTM D882		
MD – Average		3915psi	27.0MPa
TD – Average		3770psi	26.0MPa
Elmendorf Tear Resistance	ASTM D1922		
MD – Average		270g <sub>f</sub>	
TD – Average		380g <sub>f</sub>	
Grave Tear	ASTM D1004		
MD – Average		1900g <sub>f</sub>	
TD – Average		2300g <sub>f</sub>	
MVTR	ASTM F1249-90	0.0003 g/100in <sup>2</sup> /day	0.006 g/m <sup>2</sup> /day
Spencer Impact –Average	ASTM D3420	>3200g <sub>f</sub>	
Puncture Resistance – Average	FTMS 101C Method 2065	15lb <sub>f</sub>	6.8kgf
Seal Strength – Minimum (215°C, 1s, 4 bar)	ASTM F88-99	>15.4lb <sub>f</sub>	>7.0kgf

### Electrical Properties

<u>Property</u>	<u>Test Method</u>	<u>Results</u>
Surface Resistance	EOS/ESD S.11.11	>1 x 10 <sup>5</sup> Ω and <1 x 10 <sup>11</sup> Ω
Surface Resistivity	EOS/ESD S.11.11	>1 x 10 <sup>6</sup> Ω/□ and <1 x 10 <sup>12</sup> Ω/□
Capacitive Probe	EIA-541	<25 volts
Energy Test - Average	EOS/ESD S11.31	<5nanojoules

**Bags are available to order in any Size from: 2½" x 6" to 32" x 36"**  
**65 x 150mm to 800 x 900mm**

**Bags can be custom printed using hot foil stamps or flexo printing. Bags are available with open tops, zip close tops, or self adhesive/tamper evident closures.**

*For more product information visit our web site, [www.faulkner.ie](http://www.faulkner.ie)*

The values shown above were developed from random samples taken from production material. We believe them to be typical for this particular product. Because of normal lot to lot variations, actual values may vary somewhat from these depicted here. Faulkner Export Packaging Ltd. makes no warranty, express or implied; as to the suitability of these materials for any specific product. Consumers should determine product suitability through their own testing and evaluation.

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