

Armand Manufacturing INC.

SINCE 1948

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STATIC SHIELDING FILM DATA

PRODUCT:

ESD Translucent Static Shielding Bag Film - Buried Metal Conductive buried aluminum shield layer between two polymeric plastic layers; exposed surfaces static dissipative. CONTAINS NO AMINES, AMIDES or N-OCTANOIC ACID. Polycarbonate compatible.

CONSTRUCTION/COMPOSITION: (From outermost to innermost layer) Static dissipative layer/48 gauge polyester/translucent aluminum layer/adhesive/3.0 mil polyolefin/static dissipative layer.

ELECTRICAL PROPERTIES:

EMI Shielding (Mil-B-81705):	> 10 dB between 1 & 10 GHZ
Resistivity - Conductive Metal Layer (ASTM D-257)	< 50 ohms/sq. (5×10^1 ohms/sq)
Capacitive Probe Test (High voltage discharge) (EIA - Std 541/Appendix E - 1 KV)	< 20 volts
Static Decay (FTMS 101C, Method 4046.1 5000 volts to 0 V):	< .05 seconds
Surface Resistivity (both surfaces) - (ASTM D-257 @ 12% R.H.):	< 10^{12} ohms/sq (10^{10} ohms/sq average)
Charge Generation - nominal (Modified incline plane average nC/in ²)	
Teflon:	0.09
Quartz:	+0.10

PHYSICAL PROPERTIES:

Yield per lbs/(Yield per Kg)	7,850 sq. In/54.4 sq. ft. (22,973 cm ² /2.297 sq. m.)
Total thickness:	3.5 mils - (90 micron)
Tensile Strength (ASTM D882-83, Method A):	MD:5100 psi TD:5300 psi
Tear Strength (D 1004-66 Notched):	MD:4 lbs TD:3 lbs
Elongation (ASTM D882-83, Method A):	MD:60% TD:55%
Burst Strength (FTMS 191C, Method 5122):	53 psi
Puncture Strength (FTMS 101, Method 2065.1):	>10 lbs
Heat Seal Strength (D1876-72) - Vertron bar seal/heat & dwell 5.5:	>10 lbs/in width (room temperature)
MTVR (ASTM F1249 @ 100°F/100 sq in/24 hrs):	0.3 gms - nominal
Light Transmission (ASTM D-1003-77):	40% +/- 5%

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 those depicted here. Armand 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.

USES: Flat Bags
Cushion Pouches
Zip Close Bags
Zip Close Cushion Bags

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