411 & 421 Series - 3.1 Mil Cushioned Shielding Bag

Description

The All-Spec 411 & 421 Series of Cushioned Shielding Bags is designed for safe packaging of electronic devices. The bags are made from a conductive layer buried between two polymeric plastic layers. Exposed surfaces are static dissipative. The inner cushion layer absorbs shock and dampens vibration. Product is polycarbonate compatible, and amine free.

Applications

These transparent bags are intended for packaging of static sensitive electronic components with the added protection from shock or vibration. Product is safe for automatic bag sealing machines.
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Material Structure

The 3.1 mil static shield film is a conductive shield layer between two polymeric plastic layers. Cell cushion is static dissipative. Cushion protection is unaffected by age, puncture, or atmospheric conditions. Internal anti-static resin system assures long-term, static-free problems.

Standards

Meets the electrical and physical requirements of MIL-PRF-81705-D Type III.

Product Specifications

Electrical Properties		Test Method	Test Results
Surface Resistivity:	Outer Film:	ASTM D-267/ESD S11.31	< 10^{10} Ohms/Sq.
	Inner Cushion:	ASTM D-257-78	< 10^{12} Ohms/Sq.
Electrostatic Decay:		EIA-541	2 seconds

Physical Properties	Test Method	Test Results
Color:		Silver
Thickness:		3.1 mil
MVTR:	ASTM F-1249 gms @ 100F, 90% RH, 100 sq in/24 hrs	.35 grams
Tensile Strength:	ASTM D-882-83 Method A	TD: 790 psi & MD: 6500 psi
Puncture Resistance:	FTMS 101C Method 2065.1	> 10 lbs
Elongation:	ASTM D882-82 Method A	TD: 50% & MD: 75%
Tear Initiation:	ASTM D-1004-66	TD: 2.5 lbs & MD: 3 lbs
Mullen Burst:	FTMS 191 C Method 6122	70 psi

The values shown above were taken from random samples from material we believe to be typical for the product; however, actual values may vary somewhat from those listed above. All-Spec Industries makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. Customers should determine product suitability based upon their own initial criteria and testing.

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