

Metal-In Static Shielding Bags

MPK-1000 Series



**RoHS
Compliant**



Overview

MPK-1000 Metal-in Static Shielding Bags are transparent, metalized static shielding bags that provide a safe package for your ESD sensitive products. These bags are a four layer construction incorporating a polyester dielectric and metal layer to provide Faraday effect shielding of ESD and fields. Tribocharging is minimized by the specially processed polyethylene.

Standards

Meets electrical and physical requirements of MIL-PRF-81705 Type III, EIA 541, EIA 625, MIL-HDBK 263, MIL-STD-1686 and EOS/ESD Standards.

Specifications

Physical Properties	Typical Values	
Thickness	3.1 mils. Nominal	MP005
Light Transmission	40%	Tobias
Tensile Strength	≤ 4,000 psi	ASTM D882
Seal Strength	Pass	MIL-PRF-81705
Puncture Resistance	≤ 99	ASTM D-7192 (N)
Puncture Resistance	≤ 22	ASTM D-7192 (lbf)
MVTR	N/A	ASTM F-1249 g/(100in ² .day)
Heat Sealing Conditions		
Temperature	250°F - 375°F	
Time	0.5 – 3.5 seconds	
Pressure	30 – 70 psi	
Outgassing	Pass	ASTM E595
Non-corrosive	Pass	FTMS 101 MTH 3005
Electrical Properties		
Surface resistivity / Resistance	ASTM D257	or ANSI/ESD STM 11.11
Interior	< 10e ¹² Ω	or < 10e ¹¹ Ω
Exterior	< 10e ¹² Ω	or < 10e ¹¹ Ω
Metal	100 Ω	
Static Shielding	< 30 Volts	EIA 541, MIL-PRF-81705
Static Shielding	< 10 nJ	EOS/ESD S11.31
Static Decay	< 0.05 segundos	FTMS 101 MTD 4046
Charge Generation		
Teflon	0.09 nC/sq. in.	Modified Incline Plane
Quartz	0.01 nC/sq. in.	



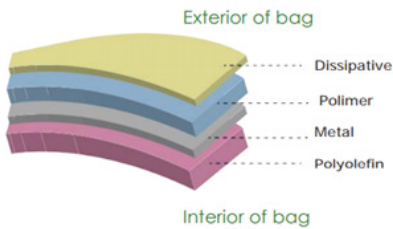
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Material Structure

Metal-in flat and zipper-closure static shield bags are made from industry-approved polyester/aluminum/polyethylene laminate. The polyester dielectric in concert with the metal layer provide Faraday Effect shielding ESD. The metal layer prevents penetration of damaging electrostatic fields. Tribochraging is minimized by the specially processed polyethylene.



Part Number Table

Description	Size	Thickness	Part Number
Metal-In Static Shielding Bag, Flat, Polyester/Aluminium/Polyethylene Laminate, Transparent, PK100	2 x 3"	3.1 Mils	MC002746
	2 x 6"		MC002747
	4 x 4"		MC002748
	4 x 24"		MC002749
	4 x 26"		MC002750
	5 x 6"		MC002751
	5 x 7"		MC002752
	6 x 9"		MC002753
	6 x 14"		MC002754
	6 x 16"		MC002755
	6 x 18"		MC002756
	6 x 26"		MC002757
	7 x 11"		MC002758
	7 x 15"		MC002759
	8 x 8"		MC002760
	8 x 12"		MC002761
	8 x 14"		MC002762
	8 x 16"		MC002763
	8 x 24"		MC002764
	9 x 12"		MC002765
10 x 16"	MC002766		
10 x 18"	MC002767		
10 x 24"	MC002768		
11 x 15"	MC002769		



Metal-In Static Shielding Bags MPK-1000 Series



Description	Size	Thickness	Part Number
Metal-In Static Shielding Bag, Flat, Polyester/Aluminium/Polyethylene Laminate, Transparent, PK100	12 x 14"	3.1 Milis	MC002770
	12 x 24"		MC002771
	12 x 26"		MC002772
	14 x 16"		MC002773
	15 x 18"		MC002774
	16 x 20"		MC002775
	16 x 24"		MC002776
	24 x 24"		MC002777
	24 x 30"		MC002778
Metal-In Static Shielding Bag with Zipper, Flat, Polyester/Aluminium/Polyethylene Laminate, Transparent, PK100	8 x 8"		MC002779
	11 x 15"		MC002780
	12 x 12"		MC002781
	12 x 18"		MC002782
	15 x 18"		MC002783
	18 x 24"		MC002784

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