

CP STAT 100M

CP STAT 100M is a strong, abrasion resistant material offering excellent electrostatic shielding properties. The metal-in, five layer construction provides superior protection from punctures and tears while creating an effective Faraday Cage for protecting microcircuits, sensitive semiconductor devices, sensitive resistors, and associated higher assemblies. Our bags are printed with a thermal transfer process which does not damage the electrical or physical integrity of the bag. CP STAT 100M is on the QPL for MIL-PRF-81705E TY.III CL.2 and is converted in accordance with MIL-DTL-117H.



FEATURES

Standard References:

- ANSI/ESD S20.20, ANSI/ESD S541 and ANSI/ESD S11.4 Level 3.
- Static dissipative inner and outer surfaces
- Durable buried metal construction shields against static charges
- Free of primary amines, amides and silicone compounds
- Lead-free RoHS 2, REACH and Conflict Minerals Compliant

Customizations available:

- Zipper, recloseable lip and tape, or flat style
- Side gusset, bottom gusset, or T-seal configurations
- Custom 6-color printing and thermal transfer printing

PHYSICAL PROPERTIES	TEST METHOD	US STANDARD
Thickness*	ASTM D374	3.0 mil
Optical Density	Densitometer	0.4
Light Transmission	Densitometer	40%
Tensile Strength MD* TD*	ASTM D882	6530 psi 5800 psi
Spencer Impact*	ASTM D3420	13.0 lbf
Puncture Resistance*	MIL-STD-3010 Method 2065	13.0 lbf
Moisture Vapor Transmission Rate	ASTM F1249 (37.8°C, 90% RH)	< 0.3 g/100in ² /day
Oxygen Gas Transmission Rate	ASTM D1249 (23.0°C, 0% RH)	< 0.5cc/100in ² /day
Heat Seal Range	ASTM F88-99	275°F - 500°F
Seal Strength (min.)	ASTM F88-99	> 14.0 lbf
ELECTRICAL PROPERTIES	TEST METHOD	US STANDARD
EMI Shielding	MIL-PRF-81705 Rev.E (1-10 GHz)	> 10 dB
Surface Resistance (both surfaces)	ASTI/ESD STM 11.11	< 1x10 ⁵ to 1x10 ¹¹ Ω
Electrostatic Decay	MIL-STD-3010 Method 4046	< 2.0 s
Capacitive Probe Test	EIA 541	< 25 V
Energy Test	EOS/ESD S11.31	< 10 nJ

*Average values given.

Disclaimer: MacPac, Inc. makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. The values shown above were developed from random samples taken from production material. We believe them to be typical for the product. Actual values may vary somewhat from those depicted here. Customers should determine product suitability based upon their own internal criteria.