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PROTECT ESD MIL-PRF-81705D Data Sheet

**Barrier Material: Watervaporproof, Electrostatic Protective, Electrostatic and Electromagnetic Shielding, Flexible, Heat-Sealable
MIL-DTL-117 Type 1, Class 1, STYLE F**

Structure description: Met-PET/PE/Foil/ESD-Sealant

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUES		UNITS	TEST METHOD
Caliper	4.5		mil	ASTM D2103
Yield	5,680		in ² /lb	Calculated
Puncture Resistance	19		lbs	FED STD 101
Tensile Strength	4,100 MD 4,300 TD		psi	ASTM D882
OTR	0.0005		cc/100 in ² /day @0% RH, 23 °C	ASTM D3985
WVTR	0.0005		g/100in ² /day @ 90% RH 40 °C	ASTM F1249
Electrostatic Shielding	0.45		volts	EIA-541 Appendix
EMI Attenuation	>35 (before flexing) 30 (after flexing)		db	MIL-PRF 81705D
Static Decay	Inner <1.0	Outer <0.02	sec	MIL-PRF 81705D
Surface Resistivity	Inner 7.0 x 10 ¹⁰	Outer Undetectable	ohms	MIL-PRF 81705D
Seal Strength	19		lbs/in	ASTM F88
Suggested Sealing Conditions	375 °F, 40psi, 1.0sec			Range: 325 °F - 425 °F

Disclaimer:

The data presented refers to typical values only and should serve only as a guide and does not encompass normal variability, or constitute any warranty. We urge purchasers to conduct tests for suitability in their specific end use.