

MILITARY SPEC FILM DATA SHEET

 **PackFreshUSA®**
The most **trusted** preservation & packaging brand
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Exterior

	48ga. METPET
	10# LDPE
	30ga. Foil
	3.0 mil ESD Sealant

Interior



MIL SPECIFICATION

Film: MIL PRF 81705E T1

Pouch: MIL DTL 117 T1 CF S1

Barrier Material: Water vapor proof, Electrostatic Protection,
Electro-magnetic Shielding, Flexible and heat sealable.

Application:

- Recommended for applications requiring permanent electrostatic protection.
- Attenuates electromagnetic radiation
- Provides a high level of oxygen and moisture barrier.
- Silver in color with black MIL-Spec printing.
- Used extensively in Navy QPL military applications.
- Typical uses are vacuum crating and pouches for micro-circuits, semi-conductors, and resistors

Converting:

CadPak ESD is usually converted into sheeting, tubing, and 2-seal pouches with a Faraday Cage.

Physical Properties:

PROPERTIES	TEST METHOD	UNIT OF MEASURE	TYPICAL VALUE
Caliper	ASTM D2103	mils	4.5
Yield (Nominal)	Calculated	sq.in/Lb	5,680
MVTR	ASTM F1249	gms/100 ² in./24 hrs @90% RH 40c	.0005
OTR	ASTM D3985	cc/100 ² in./24 hrs @0% RH 23c	.0005
Puncture	MIL STD 3010	lbs	19
Tensile strength	ASTM D882	Psi	MD:4100 TD:4300
Electro Static Shielding	EIA-541 Appendix	Volts	0.45
EMI Attenuation	MIL PRF 81705E	db	>35 (Before Flexing) 30 After Flexing
Static Decay	MIL PRF 81705E	sec	Inner:<1.0 Outer:<0.02
Surface Resistivity	MIL PRF 81705E	Ohm	Inner: 7.0x10 ¹⁰ Outer: <1.0x10
Seal Strength	ASTM F88	lbs/in	19

The values indicated in this document are the results of tests made in compliance with normal standards. They are given as an indication and should be considered as average values and given without any obligation on the part of Safeguard Brands, Inc. dba PackFreshUSA. This data was provided by the film supplier.