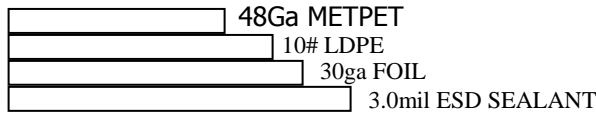


# MILITARY SPEC

# FILM DATA SHEET

**CADPAK ESD**

Exterior



Shannon Packaging Company  
3647 Shasta St.  
Chino, CA 91710  
Phone: (909) 591-8768  
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## MIL SPECIFICATION

Film: MIL PRF 81705 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 <sup>2</sup> in./24 hrs @90% RH 40c	.0005
OTR	ASTM D3985	cc/100 <sup>2</sup> 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 81705D	db	>35 (Before Flexing) 30 After Flexing
Static Decay	MIL PRF 81705D	sec	Inner:<1.0 Outer:<0.02
Surface Resistivity	MIL PRF 81705D	Ohm	Inner: 7.0x10 <sup>10</sup> Outer: Undetectable
Seal Strength	ASTM F88	lbs/in	19

The values indicated in this document are the results of tests made in compliance with the normal standards. They are given as an indication and should be considered as average values and given without any obligation on our part. This data was provided directly to Shannon from our film supplier.