This product is on the Qualified Product Listing under the Defense Standardization Program. Check our listing here.

SCS ESD Barrier Bag 817I Series are manufactured from CADPAK ESD with four layers - Met-PET, Foil, PE, ESD-Sealant. Barrier Material is watervaporproof, electrostatic protective, electrostatic and electromagnetic shielding, flexible, and heat-sealable. Film is qualified to MIL-PRF-81705E Type I, Class 1.

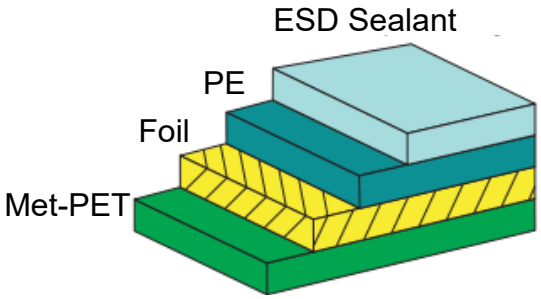
Bags are converted per MIL-DTL-117H unless otherwise requested. As such, the bag markings will contain not only the required MIL-PRF-81705E markings but also the stamp shown here:

SCS
MIL-DTL-117H
TYPE I CLASS F STYLE 1
EMI/STATIC SHIELD BAG, 817I SERIES
LOT NO.

Note: Default color is yellow. Artwork not to scale.

*** Bags are printed (hot stamp or thermal) and a lot code for traceability. ***

If your packaging needs do not include meeting MIL-DTL-117H, bags can be converted from qualified film per your packaging requirements.



Physical	Typical Value	Testing Method
Tensile Strength	4100 PSI, 28 MPa	ASTM D882
Puncture Resistance	19 lbs, 85 N	MIL-STD-3010
Seam Strength	19 lbs/in	ASTM F88
Thickness	4.5 mils, 0.114 mm +/-10%	ASTM D2103
WVTR	0.0005 g/100 in2/day @90% RH, 40°C	ASTM F12t49
OTR	0.0005 cc/100 in2/day @0% RH, 23°C	ASTM D3985
Electrical	**Typical Value**	**Testing Method**
EMI Attenuation	≥ 30 db	MIL-PRF-81705E
ESD Shielding	0.45 volts	EIA-541 Appendix
Surface Resistivity - Interior	≥ 1 x 10^5 to < 1 x 10^{12} ohms/sq	MIL-PRF-81705E
Surface Resistivity - Exterior	Undetectable	
Static Decay	≤ 1 seconds	MIL-PRF-81705E
Heat Sealing Conditions	**Typical Value**	
Temperature	325°F - 425°F, 163°C - 218°C	
Time	1 second	
Pressure	40 PSI, 276 KPa	

RoHS, REACH, and Conflict Minerals Statement
See the SCS RoHS, REACH, and Conflict Minerals Statement:
http://staticcontrol.com/PDF/Regulatory_Statement_SCS_Bags.pdf

See the SCS Limited Warranty:
StaticControl.DescoIndustries.com/Limited-Warranty.aspx

Bag is free of silicones and heavy metals.
Specifications and procedures subject to change without notice.

Made in the United States of America

ESD BARRIER BAG, 817I SERIES, MIL-DTL-117H, MIL-PRF-81705E TYPE I, CLASS 1

SCS

926 JR Industrial Drive, Sanford, NC 27332
WEB SITE: StaticControl.com
PHONE (919) 718-0000

DRAWING NUMBER
817I Bags

DATE
September 2021

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