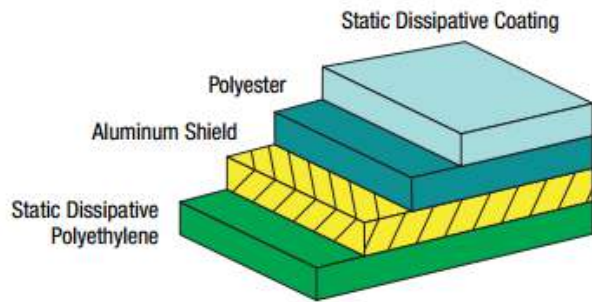


PCL100 Metal-In Static Shielding Film

SCS PCL100 Metal-In Static Shielding Film is certified to IEST-STD-CC1246E Level 100, and is designed to provide a static safe environment for ESD sensitive electronic devices. Addresses concern for Surface Particulate in cleanroom applications.

SCS PCL100 Metal-In Static Shielding Film is manufactured from a polyester, metal, polyethylene laminate. The polyester dielectric in concert with the metal layer provides discharge shielding. The exterior being static dissipative allows electrostatic charges to be removed when grounded.



RoHS, REACH, and Conflict Minerals Statement
 See the DESCO INDUSTRIES INC RoHS, REACH and Conflict Minerals Statement:
Descoindustries.com/ROHS3.aspx
 See the SCS Limited Warranty:
StaticControl.com/Limited-Warranty.aspx

Meets ANSI/ESD S20.20, Packaging standard ANSI/ESD S541

| Physical | Typical Value | Testing Method |
|-------------------------------|--|-------------------------------------|
| Tensile Strength | 4600 PSI, 32 MPa | ASTM D882 |
| Puncture Resistance | 12 lbs, 53 N | MIL-STD-3010C Method 2065 |
| Thickness | 2.8 mils, 0.071 mm +/-10% | MIL-STD-3010C Method 1003 |
| Marking Adhesion | Pass | IPC-TM-650 2.4.1 |
| Transparency | 40% | Tobias |
| Electrical | Typical Value | Testing Method |
| ESD Shielding | <10 nJ | ANSI/ESD STM11.31 |
| Surface Resistance - Interior | 1×10^4 to $< 1 \times 10^{11}$ ohms | ANSI/ESD STM11.11 |
| Surface Resistance - Exterior | $< 1 \times 10^{11}$ ohms | ANSI/ESD STM11.11 |
| Static Decay | < 2 seconds | MIL-STD-3010 Method 4046 |
| Cleanliness | Typical Value | Testing Method |
| Silicone | Not Detected | FTIR |
| Particles / 0.1 m2 | | |
| 5 - 15 μ m | ≤ 1519 | IEST-STD-CC1246E Method 6.3 and LPC |
| 15 - 25 μ m | ≤ 186 | |
| 25 - 50 μ m | ≤ 67 | |
| 50 - 100 μ m | ≤ 9 | |
| 100 - 250 μ m | ≤ 1 | |
| Heat Sealing Conditions | Typical Value | |
| Temperature | 300°F – 375°F, 149°C – 190°C | |
| Time | 0.5 – 3.5 seconds | |
| Pressure | 30 – 70 PSI, 206 – 482 KPa | |

Film is free of amines, silicones and heavy metals.

| Stock Item Numbers | Roll Size |
|--------------------------------|------------|
| PCL100R 36X100 | 36" x 100' |
| PCL100R 36X500 | 36" x 500' |

Film rolls are made with PE cores (plastic) for rolls 48" in width and smaller, and Paper cores > 48" wide

*Custom sizes available

Tolerance: Width $\pm 1/8$ "; Length $\pm 10\%$
 Unless otherwise noted, $\pm 10\%$
 Specifications and procedures subject to change without notice.



| PCL100 METAL-IN STATIC SHIELDING FILM | | |
|---|--|-------------------------------|
| 926 JR Industrial Drive, Sanford, NC 27332 WEB SITE: StaticControl.com PHONE (919) 718-0000 WEST: (909) 627-9634 | DRAWING NUMBER PCL100 Series | DATE September 2020 |

