

# Intercept Shrinkfilm™

## Anti-Corrosive Permanently Static Dissipative Polyethylene

### Description

Static Intercept® is a revolutionary new technology developed and patented by Bell Labs. Static Intercept® combines the state of the art in ESD and corrosion protection. Bell Labs determined that most latent defects are the result of corrosion. Corrosion can cause solderability problems, loss of performance and premature failure in the field. Only Intercept protects against both ESD and Corrosion.

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### Inside Surface Qualities

- ESD properties are permanent and independent of humidity
- Does not outgas
- Contains no volatile chemicals (**no amides or amines, no anti-stats**)
- Will not contaminate components
- CDM safe
- Cleanroom compatible
- Extremely low ionic contamination
- **Recyclable as colored PE**
- Inhibits mold/mildew growth on surface

### No other product protects like Intercept

Physical Properties	Typical Values	Test Method
Thickness	7 mils total (2 layers 2.9 mil each LDPE white shrinkfilm; 1 layer 1.2-mil Static Intercept resin)	
Elongation		
Machine Direction	321 %	ASTM D882
Transverse Direction	512 %	ASTM D882
Puncture Resistance	<25.0 Lbs	FTMS 101, MTH 2065
Dynamic Coefficient of Friction	.27 (on SI surface)	
Moisture Permeation	0.0769 g/m <sup>2</sup> (40°C per 24 hrs)	
Sulfur and Chlorine Permeation	0 cc/m <sup>2</sup> (for 15 years)	DuPont and AT&T Test
Heat Seal Strength	10.0 lbs/in	Instron

Electrical Properties (inside only)	Typical Values	Test Method
Surface Resistivity	10 <sup>6-7</sup> Ohms/Sq	Voyager, < 5% RH
Static Decay		
As received	.01 seconds	Mil 81705-C
After 24 Hour Water Shower	.01 seconds	Mil 81705-C
After 160°F Oven Aging	.01 seconds	Mil 81705-C
Tribo Charging	< 20 volts	Teflon and Quartz

Chemical Properties	Typical Values	Test Method
Outgassing		
Total Mass Loss	.02 %	ASTM E595
Volatile Condensable Material	.002%	NASA SP-R-0022A
Polycarbonate Compatibility	Pass	EIA 564
Corrosion Test		
Steel	Pass	
Copper	Pass	
Mil PRF 131J (for anti-corrosion)	Pass	Military Testing
Salt Fog Testing	Pass	ASTM B-117



...simply better protection

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