



# CORROSION INTERCEPT



By Appointment  
to Her Majesty Queen Elizabeth II  
Suppliers of Conservation Storage,  
Equipment and Display Products  
Conservation By Design Limited Bedford

© EMI 1995 **Static Intercept Anti-Corrosive Permanently Static Dissipative Polyethylene Bags**

**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. AT&T 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.**

- 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
- Tribo charging < 20 volts
- Cleanroom compatible
- Extremely low ionic contamination
- **Intercept is fully recyclable**
- **Intercept Meets Mil Spec 81705C**

**No other product protects like Intercept**

Physical Properties	Typical Values	Test Method
<b>Thickness</b>	3 mils	
<b>Tensile Strength</b>		
Machine Direction	11.5 Lbs/in	ASTM D882
Transverse Direction	9.0 Lbs/in	ASTM D882
<b>Elongation</b>		
Machine Direction	321 %	ASTM D882
Transverse Direction	512 %	ASTM D882
<b>Puncture Resistance</b>	8.0 Lbs	FTMS 101, MTH 2065
<b>Dynamic Coefficient of Friction</b>	.27 (on own surface)	
<b>Moisture Permeation</b>	3 g/m <sup>2</sup> (40°C per 24 hrs)	
<b>Sulfur and Chlorine Permeation</b>	0 cc/m <sup>2</sup> (for 15 years)	DuPont and AT&T Test
<b>Ozone Permeation</b>	0 cc/m <sup>2</sup> (for 15 years)	DuPont and AT&T Test
<b>Heat Seal Strength</b>	6.0 lbs/in	Instron

Electrical Properties	Typical Values	Test Method
<b>Surface Resistivity</b>	106-7 Ohms/Sq	Voyager, < 5% RH
<b>Static Decay</b>		
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
<b>Static Shielding</b>	< 80 volts	Mil 81705-C
<b>Tribo Charging</b>	< 20 volts	Teflon and Quartz

Chemical Properties	Typical Values	Test Method
<b>Outgassing</b>		
Total Mass Loss	.02 %	ASTM E595
Volatile Condensable Material	.002%	NASA SP-R-0022A
<b>Polycarbonate Compatibility</b>	Pass	EIA 564
<b>Corrosion Test</b>		
Steel	Pass	
Copper	Pass	

## CONSERVATION BY DESIGN LIMITED



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