



7100 Series Anti-Static Polyethylene

7100 Series Antistatic Polyethylene film is amine and amid free and meets the electrical requirements of Type II Mil-B-81705D entitled Barrier Material. Flexible, Electrostatic-Free and Heat Sealable. Humidity Independent-does not require the presence of moisture on its surface to function. Non-corrosive-Fluoride (F), Chloride (Cl), Sodium (Na), Sulfate (SO), Nitrate (NO), and Phosphate (PO) corrosive contaminants were found to be negligible or unmeasurable.

Physical Properties	Test Method	Typical Values
Color		Clear, Pink or Blue tint
Thickness		2 mil to 8 mils
Tensile Strength	ASTM-D882	2000 to 3000 PSI
Tearing Strength	ASTM-D1004	65 to 450 lbs./in
Elongation (MD%)	ASTM-D882	greater than 550
Dart Impact	ASTM-D3420	250 to 700 gms
Burst (Mullen)	ASTM-D882	20-60 PSI
Performance		
Surface Resistivity		$<10^{12}$ ohm/sq.
Static Decay Rate	Fed. Test Method 101 Method 4046	5 KV-0 Volts <2 sec Per MIL-PRF-81705D Type II

Polycarbonate Compatibility --3400 PSI at 73F, 2500 PSI at 120F
1700 PSI at 158F, 2000 PSI at 185F

Shelf Life: Permanently antistatic under normal storage conditions.

Tested 16 hours @ 0°F - antistatic

Tested 16 hours @ 160°F – antistatic

Tested 8 hours @ 100°F – 95% RH-antistatic

Sizes: Bag Width – 1” to 80”

Bag Length – any length

Available with reclosable zip tops

Heat Sealing: Product is suitable for automatic bag-making machines:

Temperature – 250°F – 375°F

Time – 0.5-3.5 seconds

Pressure – 30-70 P.S.I.

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Applications: For packaging of static sensitive components, where electrostatic contamination is a problem. The 7100 Series is also available as bags, tubing, and sheeting for Class 100 cleanroom flexible packaging.