

Bennett & Bennett © Anti-Static Polyethylene

The 7100 Series **Anti Static Polyethylene** film is amine and amide free and meets the electrical requirements of Type II Mil-B-81705C 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 immeasurable.

Physical Properties	Test Method	Typical Values
Color		Clear, Pink or Blue
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 zippered 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.

Applications: The 7100 Series is made available as bags, tubing, and sheeting upon request and *can be made* for Class 100 cleanroom use. Anti-Static packaging is for storing static sensitive components to prevent tribocharging and where electrostatic contamination is a problem.