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## ESD Acrylic Properties

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D-792	g/cm <sup>3</sup>	1.19
Water Absorption	D-570	% by wt	0.30
Optical Properties	ASTM Test Method	Units	Values
Optical Refractive Index	D-542		1.49
Light Transmission-Total	D-1003	%	90
Electrical Properties	ASTM Test Method	Units	Values
Surface Resistivity	ASTM D-257	ohms/sq.	10 <sup>6</sup> -10 <sup>8</sup>
Electrostatic Decay	FTS 101C, Method 4046.1	sec	Less than 0.05
Mechanical Properties	ASTM Test Method	Units	Values
Tensile Strength - Max.	D-638	psi	10,000
Tensile Elongation - Max.	D-638	%	4.5
Tensile Modulus of Elasticity	D-638	psi	40,000
Flexural Strength - Max.	D-790	psi	16,500
Flexural Modulus of Elasticity	D-790	psi	475,000
Compressive Strength	D-695	psi	18,000
Thermal Properties	ASTM Test Method	Units	Values
Maximum Recommended Continuous Service		°F	170-190
Softening Point		°F	210-220
Melting Temperature		°F	300-315
Thermal Conductivity	C-177	BTU-ft/(hr-ft <sup>2</sup> -°F)	1.3
Horizontal Burn (Flame Spread)	D-635	In/minute	1.1

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.