

Product Data - SC ESD Polycarbonate



TYPICAL PROPERTIES

Property	Test Method	Units	SC ESD Polycarbonate
Physical Specific Gravity	ASTM D792	--	1.20
Mechanical Tensile Strength Ultimate Elongation Tensile Modulus Flexural Strength Flexural Modulus Compressive Strength Izod Impact Strength (milled notch)	 ASTM D638 ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D695 ASTM D256	 psi % psi psi psi psi ft-lb/inch of notch	 9,500 100 340,000 13,500 340,000 12,500 16
Thermal Deflection Temperature (264 psi load) Vicat Softening Point Maximum Continuous Service Temperature Coefficient of Thermal Expansion Coefficient of Thermal Conductivity	 ASTM D648 ASTM D1525 -- ASTM D696 Cenco-Fitch	 °F °F °F in/in/°F BTU•in/hr•ft ² •°F	 270 310 180 3.8×10^{-5} 1.35
Flammability Horizontal Burn (Flame Spread) UL 94 Rating	 ASTM D635 UL 94	 in/min UL Classification	 Less than 1.0 V-2 0.118 - 0.236 in V-0 $\geq$ 0.236 in
Optical 3mm Transparent Clear Transmittance - Total Haze	 ASTM D1003 ASTM D1003	 % %	 75 Less than 5.0
Electrical Surface Resistivity Surface Resistance Electrostatic Decay	 ASTM D257 EOS/ESD S11.11 FTS 101C, Method 4046.1*	 ohms/sq ohms sec	 $10^6 - 10^8$ $10^5 - 10^7$ Less than 0.05

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