



Polycarbonate Data Sheet

PROPERTY ^a	TEST METHOD	TYPICAL VALUE ^b
PHYSICAL		
Specific Gravity	ASTM D792	1.20
Hardness (Rockwell)	ASTM D785	M70
Water Absorption (24hr. @ 73F)	ASTM D570	0.35 %
Chemical Resistance	ANSI Z26.1	fails (crazing)
w/ TSP DURAVUE [®]		pass
Abrasion Resistance (taber, 100 cycles)	ASTM D1044-1003	15 % haze
w/ TSP DURAVUE [®]		<1.0 % haze
OPTICAL		
Refractive Index	ASTM D542A	1.59
Light Transmission	ASTM D1003	88 %
Haze	ASTM D1003	<1.0 %
MECHANICAL		
Tensile Strength	ASTM D638	9,000 psi
Tensile Elongation	ASTM D638	110 %
Tensile Modulus	ASTM D638	345,000 psi
Flexural Strength	ASTM D790	13,500 psi
Flexural Modulus	ASTM D790	345,000 psi
Compression Strength	ASTM D695	12,500 psi
Impact Strength (Notched Izod)	ASTM D256A	16 ft.lbs/in
THERMAL		
Coefficient of Thermal Expansion	ASTM D696	3.75 x 10 ⁻⁵ in/in/°F
Coefficient of Thermal Conductivity	ASTM C177	1.35 BTU/(hr)(sf)(°F/in)
Deflection Temperature (264 psi)	ASTM D648	270 °F
Flammability (>.080")	UL94	V-2
ELECTRICAL		
Dielectric Strength	ASTM D149	380 V/mil
Dielectric Constant (60 Hz)	ASTM D150	3.2
Volume Resistivity	ASTM D257	8 x 10 ¹⁶ ohm-cm

NOTES: a Typical values; should not be used for specification purposes

b Values are for nominal 0.250" (6mm) thickness. Some values will change with thickness or pigmentation