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## Abrasion Resistant Polycarbonate Properties

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D-792	g/cm <sup>3</sup>	1.20
Optical Refractive Index	D-542		1.586
Light Transmission	D-1003	%	86
Water Absorption	D-570	%	0.15
Taber Abrasion 100 cycles CS10F,Delta Haze	D-1044		1-2
Mechanical Properties	ASTM Test Method	Units	Values
Tensile Strength-Ultimate	D-638	psi	9500.00
Tensile Strength-Yield	D-638	psi	9000.000
Tensile Modulus	D-638	psi	340000
Elongation	D-638	%	110.00
Poisson's Ratio	E-132		0.38
Flexural Strength	D-790	psi	13500.00
Flexural Modulus	D-790	psi	345000.00
Rockwell Hardness	D-785		M-70
Thermal Properties	ASTM Test Method	Units	Values
Coefficient of Thermal Expansion	D-696	in/(in-°F) x 10 <sup>-5</sup>	3.75
Coefficient of Thermal Conductivity	C-177	BTU-ft/(hr-ft <sup>2</sup> -°F)	1.35
Flammability Properties	ASTM Test Method	Units	Values
Horizontal Burn, AEB	D-635	in	<1
Flame Class @ 0.060"	UL 94		HB

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.