



POLYGUARD

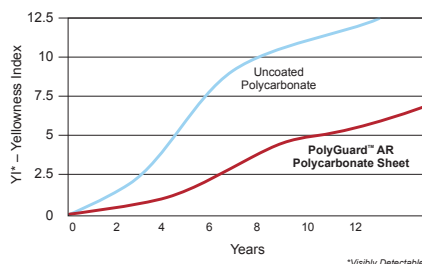
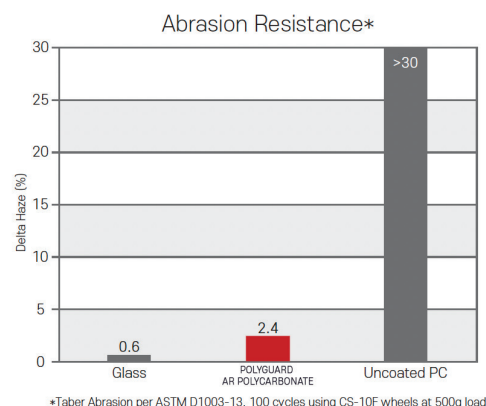
TYPICAL PROPERTIES

Polycarbonate Sheet

PROPERTY	TEST METHOD	UNITS	VALUES
PHYSICAL			
Specific Gravity	ASTM D 792	–	1.2
Refractive Index	ASTM D 542	–	1.586
Light Transmission, Clear @ 0.118"	ASTM D 1003	%	86
Light Transmission, Brown @ 0.118"	ASTM D 1003	%	41
Light Transmission, Green @ 0.118"	ASTM D 1003	%	42
Light Transmission, Smoke @ 0.118"	ASTM D 1003	%	44
Water Absorption, 24 hours	ASTM D 570	%	0.15
Taber Abrasion @ 100 Cycles, Delta Haze CS-10F Wheel @ 500 g load	ASTM D1003-13	%	2.4
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	38×10^{-6}
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	288
Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	293
Vicat Softening Point, 50°C/hr, 50N Load	ASTM D 1525	°F	304
ELECTRICAL			
Dielectric Constant @ 60 Hz	ASTM D 150	–	3
Volume Resistivity	ASTM D 257	$\Omega \cdot \text{cm}$	2.0×10^{17}
Dissipation Factor @ 60 Hz	ASTM D 150	–	0.001
Dielectric Strength, in air @ 0.125"	ASTM D 149	V/mil	420
MECHANICAL			
Tensile Strength, Ultimate	ASTM D 638	psi	10,500
Tensile Strength, Yield	ASTM D 638	psi	8,700
Tensile Modulus	ASTM D 638	psi	350,000
Elongation	ASTM D 638	%	150
Flexural Strength	ASTM D 790	psi	14,000
Flexural Modulus	ASTM D 790	psi	350,000
Izod Impact Strength, Notched @ 0.125"	ASTM D 256	ft-lbs/in	17
Izod Impact Strength, Unnotched @ 0.125"	ASTM D 256	ft-lbs/in	No break
Instrumented Impact @ 0.125"	ASTM D 3763	ft-lbs	800
Rockwell Hardness	ASTM D 785	–	M74/ R118

REGULATORY CODE COMPLIANCE AND CERTIFICATIONS
UL 94: Flammability File #E331779*

**Typical properties; not to be constructed as specifications*



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 determines the suitability of our materials and suggestions before adopting them on a commercial scale.

Calsak
PLASTICS