

TUFFAK Polycarbonate Mirrored Sheet Properties

PLASKOLITE

FABBACK® Plaskolite products are strong, lightweight thermoplastic materials that have developed a wide use as a replacement for glass mirror, especially where the risk of higher stresses is greater and where safety is a concern. Plaskolite mirrors can be used as a reflecting surface in decoration, visual merchandising and store design and frees creative designers from the esthetic and physical limitations of ordinary glass. The high optical quality polycarbonate substrate provides clear mirror images and outstanding strength and impact resistance.

Polycarbonate mirrored sheets offer better strength, security and flame resistance. Polycarbonate mirror is available in 3mm and 6mm in 2440 x 1220 sheet. Plaskolite also offers this in See-thru (two-way) mirror, First surface (double sided) mirror and ARmadillo coating (anti-scratch) mirror. First surface mirror is manufactured to order.

Polycarbonate mirror may be saw cut, router cut or laser cut. A cutting service is available using our wall saw.

Typical Properties*

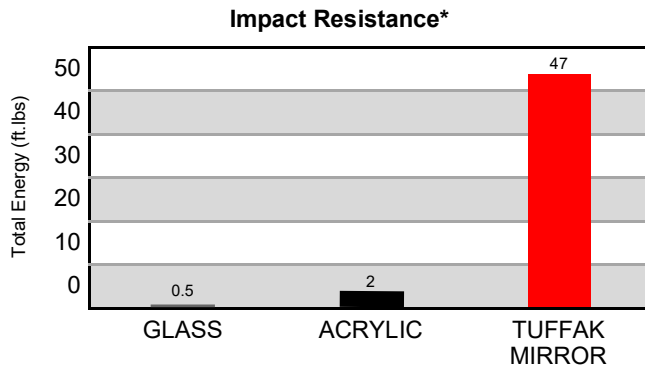
Property	Test Method	Units	Values
Physical			
Specific Gravity	ASTM D792	-	1.2
Poissons's Ratio	ASTM E132	-	0.38
Mechanical			
Tensile Strength, Ultimate	ASTM D638	psi	9,500
Tensile Strength, Yield	ASTM D638	psi	9,000
Tensile Modulus	ASTM D638	psi	340,000
Elongation	ASTM D638	%	110
Flexural Strength	ASTM D790	psi	13,500
Flexural Modulus	ASTM D790	psi	345,000
Compressive Strength	ASTM D695	psi	12,500
Compressive Modulus	ASTM D695	psi	345,000
Shear Strength, Ultimate	ASTM D732	psi	10,000
Shear Strength, Yield	ASTM D732	psi	6,000
Shear Modulus	ASTM D732	psi	114,000
Instrumented Impact @ 0.118"	ASTM D256	ft-lbs/in	47
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/(in-°F)	3.75 x 10 ⁻⁵
Coefficient of Thermal Conductivity	ASTM C177	BTU-ft/(hr-ft ² -°F)	0.1125
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D648	°F	280
Brittleness Temperature	ASTM D746	°F	-200
Flammability			
Horizontal Burn, AEB	ASTM D635	in.	<1
Ignition Temperature Self	ASTM D1929	°F	1022
Ignition Temperature Flash	ASTM D1929	°F	824

*Typical Properties are not intended for specification purposes

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.

TUFFAK polycarbonate mirror is ideally suited for a variety of applications using standard plastic fabrication processes and techniques.

- ◆ Economical
- ◆ Does not shatter into sharp-edged pieces like glass
- ◆ More lightweight when compared to glass mirrors
- ◆ Made with TUFFAK Polycarbonate



* Instrumental Impact per ASTM D3763. Sample thickness is 0.125" nominal