



MULFORD
PLASTICS
delivering solutions

POLYCARBONATE UV

Polycarbonate UV

Zenolex® UV

Zenolex® Polycarbonate is the ultimate high strength glazing and industrial material. **Zenolex®** sheet is recognised not only for its clarity, safety, security and energy savings, but also for the design freedom it provides architects. **Zenolex®** has performed successfully for many years around the world in thousands of structures and applications.

Zenolex® sheets has 250 times the impact strength of glass making it virtually unbreakable, transparent **Zenolex®** polycarbonate sheet comes with UV protection on both sides of the surface and provides remarkable clarity - even after many years of intense sunlight and weather extremes.

Key Features

- High impact strength
- Inherent “water-clear” transparency
- Proprietary UV resistance
- Dimensional stability at elevated temperatures
- Light weight, thermoformable
- Easily cold formed
- Flame resistance (some grades)

Product Applications

- Overhead & vertical glazing
- Security glazing
- Skylights
- Barrel vaults
- Domes
- Sound barriers
- Industrial/machinery guards
- Signage

POLYCARBONATE UV

TECHNICAL DATA SHEET

PROPERTY	TEST METHOD	UNITS	VALUE
PHYSICAL			
Specific Gravity	ASTM D792	-	1.20
Sound Transmission, STC Rating (36"x84")	ASTM E9070	-	25
@ 0.118"			29
@ 0.177"			31
@ 0.236"			88
Light Transmission (Average)	ASTM D1003	%	88
Rockwell Hardness	ASTM D785	-	M70, R118
Chemical Resistance	ANSI Z26.1		Passes
MECHANICAL			
Tensile stress @ Yield	ASTM D638	psi	9,300
Tensile Modulus	ASTM D638	psi	345,000
Flexural Strength	ASTM D790	psi	14,500
Flexural Modulus	ASTM D790	psi	36,000
Flexural Endurance @ 1,800 Cycles/Min, 73°F, 50% RH	ASTM D671	psi	1,000
Compressive Strength @ yield	ASTM D695	psi	10,400
Elongation	ASTM D638	%	85
Izod Impact Strength, up to 125 mils, Notched Drop	ASTM D256A	ft-lbs-in	12-18
Dart Impact Strength, 1" dia. Dart @ 73°F	SABIC Test£	ft-lbs	>200
@ 0°F			>200
THERMAL			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Thermal Shrinkage	SABIC Test£	%	1
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	270
@ 66 psi			280
Shading Coefficient	ASHRAE	-	1.02
Clear			1.02
Grey/Bronze	ASTM D746	°F	.79
FLAMMABILITY			
Horizontal Burn (Flame Spread) AEB	ASTM D635	in	<1
Ignition Temperature Flash	ASTM D1929	°F	873
Self			1,076

£ Measured by dropping a 5-pound dart (1 " dia. tip) from a height of 40 feet. These are typical properties and are not intended for specification purposes.

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Mulford International nor any of their suppliers assume any liability for use of information presented.

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