

### **Product Description**

Glazeguard™ UV sheet is ideal for outdoor applications. It has a polished surface and is UV protected on both sides. Glazeguard™ UV offers extreme impact strength, exceeding the physical properties of any product in its class. It combines temperature resistance in a wide range (-100°C up to 125°C) with high optical clarity and good fire behavior. It offers the perfect choice for a long service life owing to its good weather resistance.

### **Applications**

- Industrial/Machine Guards
- Security Glazing
- Noise Walls/Sound Barriers
- Bus Shelters
- Outdoor School and Hospital Shelters
- Roofing, covered walkways, skylights
- Signage
- Barrel vaults

### **Key Features and Benefits**

- High Impact Strength
- UV Resistance
- Light Weight, thermoformable
- Frame Resistance (some grades)
- Inherent "Water-Clear" transparency
- Dimensional Stability at Elevated Temperature
- Easily Cold Formed
- Long Life Outdoors

# Glazeguard UV2 (Polycarbonate UV2)

## Technical Data Sheet

### Physical Properties

	Value	Unit	Verification
Specific Gravity	1.20	-	ASTM D792
Sound Transmission, STC Rating (36"x84")			ASTM E9070
@ 0.118"	25		
@ 0.177"	29		
@ 0.236"	31		
Rockwell Hardness	M70, R118	-	ASTM D785
Chemical Resistance	Passes	-	ANZI Z26.1

### Mechanical Properties

	Value	Unit	Verification
Tensile Strength @ Yield	9,300	psi	ASTM D638
Tensile Modulus	345,000	psi	ASTM D638
Flexural Strength	14,500	psi	ASTM D790
Flexural Modulus	36,000	psi	ASTM D790
Flexural Endurance @ 1,800 Cycles/Min, 73°F, 50% RH	1,000	psi	ASTM D671
Compressive Strength @ Yield	10,400	psi	ASTM D695
Elongation	85	%	ASTM D638
Izod Impact Strength, up to 125 mils, Notched Drop	12-18	ft-lbs-in	ASTM D256A
Dart Impact Strength, 1" dia. Dart @ 73°F	>200	ft-lbs	SABIC Text£
@ 0°F	>200		

### Thermal Properties

	Value	Unit	Verification
Coefficient of Thermal Expansion	$3.75 \times 10^{-5}$	in/in/°F	ASTM D696
Thermal Shrinkage	1	%	SABIC Test£
Heat Deflection Temperature @ 264 psi		°F	ASTM D648
@ 66 psi	270		
Continuous Service Temperature	110	°C	-
Maximum Short Term Temperature	120	°C	-
Degradation Temperature	>280	°C	-
Shading Coefficient	280	-	ASHRAE
Clear	1.02		
Grey/Bronze	.79	°F	ASTM D746

### Optical

	Value	Unit	Verification
Light Transmission (Average)	88	%	ASTM D1003

### Flammability

	Value	Unit	Verification
Horizontal Burn (Flame Spread) AEB	<1	in	ASTM D635
Ignition Temperature Flash	873	°F	ASTM D1929
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.