

# CHEMCAST<sup>®</sup>

The all purpose cell-cast acrylic sheet



**SB**  
Solar Block

**CHEMCAST SB** is the new generation of cell cast acrylic sheet specially designed to filter 99% UV radiation.



**CHEMCAST SB** can be used in every place where you need to protect yourself or your valuable articles against the harmful solar UV radiation. Windshields, windows and sky domes are some of the applications recommended.

**CHEMCAST SB** protects special adhesives and joints used on boat and yacht windows.



## Advantages and Benefits



Lighter weight than glass.



Easy to fabricate.



Full protection against UV solar radiation.

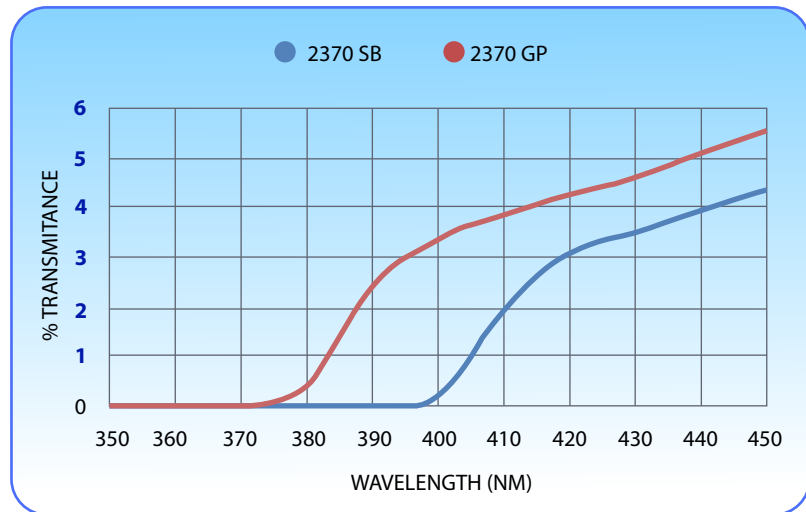
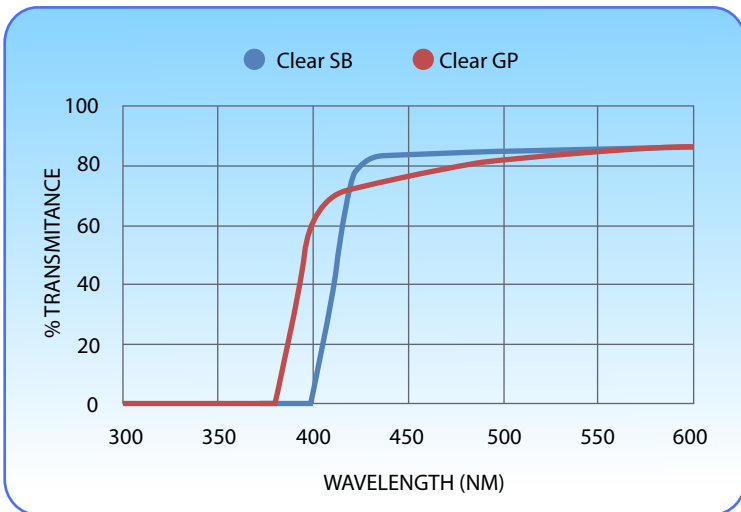
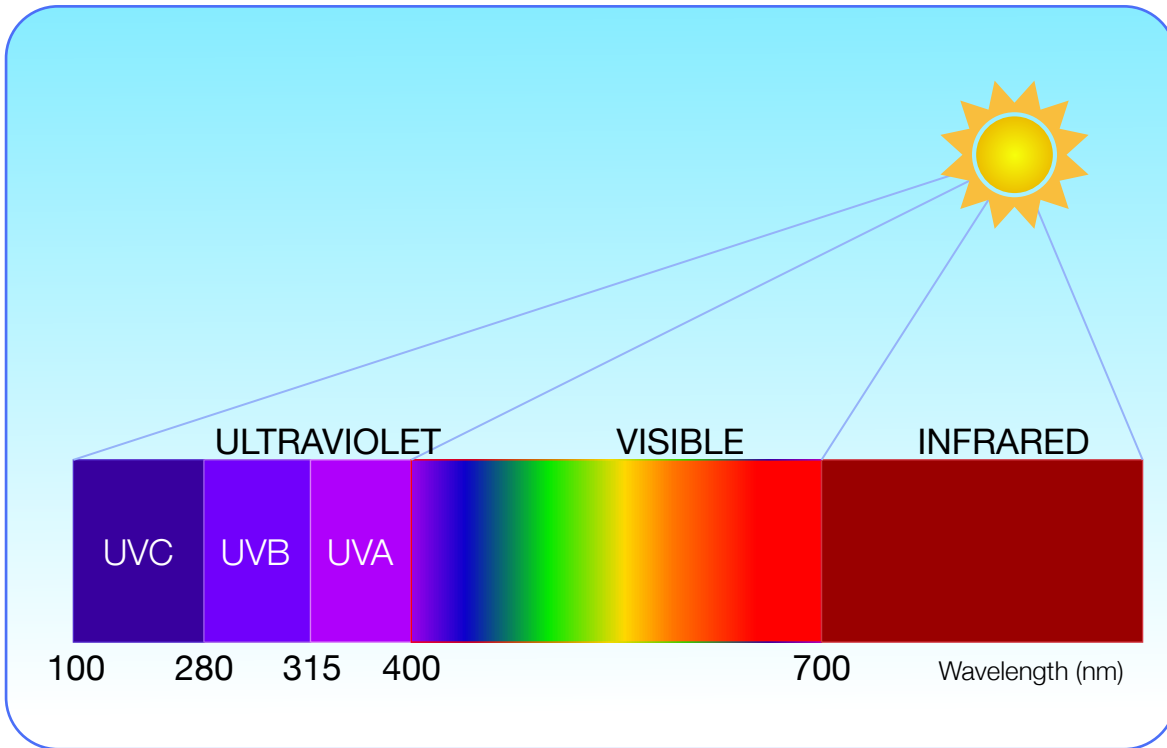


High clarity in a wide range of colors.



Available in a wide range of sizes.

# Solar spectral radiation components



Chemcast Solar Block filters out up to 99% of UV radiation without affecting color performance through visible spectrum.





### Product Availability

Product	Colors	thickness	Sizes
Chemcast SB	2370	0.354"	48" x 96"
	2540	0.472"	51" x 100"
	2404		60" x 96"
	2538		72" x 96"
	2094 CLEAR		

## PHYSICAL AND MECHANICAL PROPERTIES

PROPERTY	TYPICAL VALUE (1)	TEST METHOD
<b>OPTICAL</b>		
Specific Gravity	1.18	ASTMD 792
Optical Refractive Index	1.49	ASTMD 542
Haze (%)	2	ASTMD 542
Light Transmission (%) 0.220" - 0.472" ( Clear)	90	ASTM 1003
Light Transmission UV 400 nm (%) clear 0.236"	1% >	ASTM 1003
<b>MECHANICAL</b>		
Tensile Strength (psi)	9600	ASTMD 638
Elongation at Rupture (%)	4.5	ASTMD 638
Modulus of Elasticity (psi)	425,000	ASTMD 798
Impact Strength (ft lb/in)	0.4 - 0.5	ASTM 256
Flexural Strength (psi)	15000 – 16000	ASTMD 798
Rockwell Hardness	M (90 - 100)	ASTM 785
Barcol Hardness	50	ASTM 2583
<b>THERMAL</b>		
Forming Temperature (°C)	140 – 180	
(°F)	284 – 356	
Deflection Temperature Under Load (264 psi) (°C)	91	ASTMD 648
(°F)	196	ASTMD 648
Maximum recommended continuous service temp (°C)	80	ASTM 1525
(°F)	176	ASTM 152
<b>MISCELLANEOUS</b>		
Water absorption (24 hrs. -23°C -73 °F) (%)	0.30%	ASTM 570

All values referred to 6.0 mm (0.236") acrylic sheet. These values are typical and should not be taken as specifications.

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 **UNIGEL**