

CHEMCAST[®]
The all purpose cell-cast acrylic sheet



CHEMCAST[®]
CELL CAST ACRYLIC SHEET
Bullet Resistant  **BR[®]**



CHEMCAST BR[®] is a 32mm (1.25") thick cell cast Clear acrylic sheet that has been certified UL752 by Underwriters Laboratories (UL) as a bullet resistant material against medium and power small arms (level 1).

CHEMCAST[®] **BR** has an excellent optical clarity that makes it suitable for glazing bullet resistant applications in banks, government offices and drive-thru.

APPLICATIONS

Safety barriers at:

- Banks.
- Offices.
- Convenience stores.
- Drive-thru.
- Stores at gas stations.

COLORS

COLORS
Clear

PHYSICAL AND MECHANICAL PROPERTIES

PROPERTY	TYPICAL VALUE (1)	TEST METHOD
OPTICAL		
Optical Refractive Index	1.49	ASTM D542
Haze (%)	2.0	ASTM D 1003
Light Transmission (%)		
1.25" Clear BR Level I	87	ASTM 1003
MECHANICAL		
Tensile Strength (psi)	9600	ASTM D638
Elongation at Rupture (%)	4.5	ASTM D638
Modulus of Elasticity (psi)	425,000	ASTM D79 0
Impact Strength Izod (ft lb/in)	0.4 - 0.5	ASTM 256
Performance Testing:	.9mm Full Metal Copper Jacket with Lead Core No Spall, No Penetration	UL Standard 752 - Level 1 - UL Listed Certificate Number 20160602 -BP8756
Weight per sq.ft	8.50 lbs	Internal
Flexural Strength (psi)	15000 - 16000	ASTM D 79 0
Rockwell Hardness	M (90 - 100)	ASTM 785
Barcol Hardness	50	ASTM 2583
THERMAL		
Forming Temperature (°C) (°F)	140 - 180 284 - 356	ASTMD 648
Deflection Temperature Under Load (264 psi) (°C) (°F)	91 196	ASTMD 648

Maximum recommended continuous service temp (°C) (°F)	80 176	
MISCELLANEOUS		
Water absorption (24 hrs. -23°C -73°F) (%)	0.3%	ASTM 570

CHEMICAL RESISTANCE

CHEMICAL	CODE	CHEMICAL	CODE
Acetic Acid (10%)	LR	Hydrogen Peroxid	R
Acetic Acid (glacial)	N	(3%) Isopropyl Alcohol	LR
Acetone	N	Kerosene	R
Ammonium Chloride	R	Lacquer Thinner	N
Ammonium Hydroxide	R	Methyl Alcohol (30%)	LR
Benzene	N	Methyl Alcohol (100%)	N
Calcium chloride	N	Methyl Ethyl Ketone	N
Carbon Tetrachloride	R	Methylene Chloride	N
Chloroform	N	Nitric Acid (10%)	R
Chromic Acid (1 0%)	LR	Nitric Acid (100%)	N
Chromic Acid (conc.)	N	Phenol (5%)	N
Diethyl Ether	N	Sodium Chloride	R
Dioctyl Phthalate	LR	Sodium Hydroxide (10%)	R
Ethyl Alcohol (30%)	N	Sodium Hypochloride	R
Ethyl Alcohol (95%)	N	Sulfuric Acid (3%)	N
Ethylene Dichloride	N	Sulfuric Acid (conc.)	N
Ethylene Glycol	R	Toluene	N

Gasoline	LR	Trichloroethylene	N
Glycerine	R	Turpentine	R
Hexane	R	Water (distilled)	R
Hydrochloric Acid	R	Xilene	N

LIMITED WARRANTY

Plastiglas de Mexico warrants its CHEMCAST BR ® cell cast acrylic sheets against any origin manufacture defect. Warrant covers properties and characteristics expressed on the catalogs of product.

This is a limited warranty only for the CHEMCAST BR ® cell cast acrylic sheets. No transformation or installation jobs are considered on it.

This limited warranty does not consider any fault or damage during sheet transformation or installation. Customer should follow the technical recommendations for processing CHEMCAST BR ® cell cast acrylic sheets.

This limited warranty does not consider any damage caused for the excessive heat exposure and or any non recommended chemical agents used for cleaning and maintenance.

Customer should see the Plastiglas de Mexico's recommended maintenance methods.

Plastiglas de Mexico has no liability under any circumstance for the cost of removal of defective sheet or the installation of replacement sheet or for indirect incidental or consequential damage.

In order to make a claim under the foregoing warranty, please contact Plastiglas de México or one of our representatives. You will be required to show a representative evidence of the problem and provide a purchase order number and or information regarding batch number printed on the label of the acrylic sheet.

Time frames for claim's acceptance:

- 1.- Quality in the delivery: Immediately after the reception of the material.
- 2.- Protective paper anchoring: 6 months after the manufacturing date written on the product label
- 3.- Performance and processability: 1 year after the manufacturing date written on the product label.



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