

AZCARB M MIRROR Polycarbonate Sheet

AZCARB M polycarbonate sheet is virtually unbreakable improving safety and eliminating the hazards associated with broken glass. AZ Polymers extrudes the highest optical quality polycarbonate substrate from 100% virgin Lexan resin on world class extrusion equipment encapsulated in ISO 8 clean rooms with inline optical scanning & sorted capabilities. This provides the clearest mirror images with outstanding strength and impact resistance. The product is lightweight (half the weight of mirrored glass) and a durable coating protects the mirrored second surface making it easy to fabricate, handle and install without scratching. It is ideal in applications including high traffic and abusive environments such as jails, detention centers, gyms, hospitals, amusement parks, airplanes, boats and casinos.

- High Impact Strength – 200x stronger than glass and 20x stronger impact strength than standard Acrylic
- Lightweight - half the weight of mirrored glass
- Easily fabricated using standard plastic fabrication processes and techniques
- Stock gauges: 0.118" & 0.236"
- Stock size: 48.375" x 96.375"
- Limited five (5) year warranty against breakage

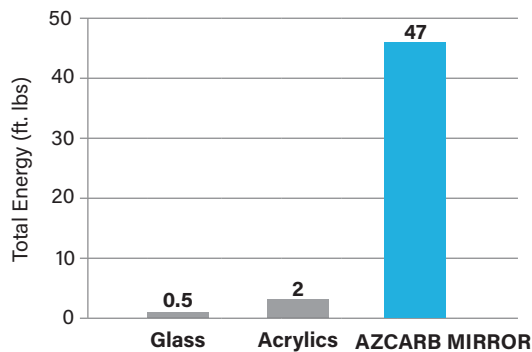
AZCARB MIRROR Polycarbonate Sheet

TYPICAL STANDARD PROPERTIES¹

PROPERTY	TEST METHOD	UNITS	AZCARB GP
PHYSICAL			
Specific gravity	ASTM D792	N/A	1.2
Poisson's Ratio	ASTM E 132	-	0.38
MECHANICAL			
Tensile strength, yield	ASTM D638	psi	9,000
Tensile strength, ultimate	ASTM D638	psi	9,500
Tensile modulus	ASTM D638	psi	340,000
Tensile elongation	ASTM D638	%	110
Flexural strength	ASTM D790	psi	14,000
Flexural modulus	ASTM D790	psi	345,000
Compression strength	ASTM D695	psi	12,500
Compression 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
Instrumental impact @ 0.118"	ASTM D256	ft-lbs/inch	47
THERMAL			
Coefficient of thermal expansion	ASTM D696	in/in/°F	0.0000380
Coefficient of thermal conductivity	ASTM D177	BTU-in/hr-sq ft-°F	1.35
Heat deflection Temperature @ 264 psi	ASTM D648	°F	275
Heat deflection Temperature @ 66 psi	ASTM D648	°F	280
Brittleness Temperature	ASTM D746	°F	-200
FLAMMABILITY			
Horizontal burn rate	ASTM D635	inches	<1
Ignition temperature, self	ASTM D1929	°F	1022
Ignition temperature, flash	ASTM D1929	°F	824

¹Values reported are averages and should not be used for specification purposes.

IMPACT RESISTANCE*



* Instrumented Impact per ASTM D 3763.
Sample thickness 0.125" nominal.

AZCARB MIRROR Polycarbonate Sheet is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper for building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives. The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, AZPolymers expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

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AZCARB-MIRROR-SS-1-25



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