

AZCARB



AZCARB OG OPTICAL GRADE Polycarbonate Sheet

AZCARB OG is a high optic, polished, uncoated, UV stabilized, transparent polycarbonate sheet extruded from 100% virgin Lexan® resin. AZCARB OG sheet is manufactured utilizing the newest state-of-the-art extrusion technology within an ISO 8 clean room in conjunction with world class in-line optical scanning and sorting capabilities to ensure highest quality sheet with minimal point defect/inclusions and optical distortion.

AZCARB OG is designed for key applications requiring the highest optics including glazing lamination, substrate for high performance coatings, LED windows, security barriers and optically clear lens.

- Optically scanned in-line and sorted
- High impact strength
- Dimensional stability
- Thicknesses available for .060" to .500"
- Lightweight
- Formable
- Easily fabricated
- Recyclable
- Novacel COEX Ultra Mask both sides to the edges
- Direction of Extrusion (DOE) identified on masking

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TYPICAL STANDARD PROPERTIES¹

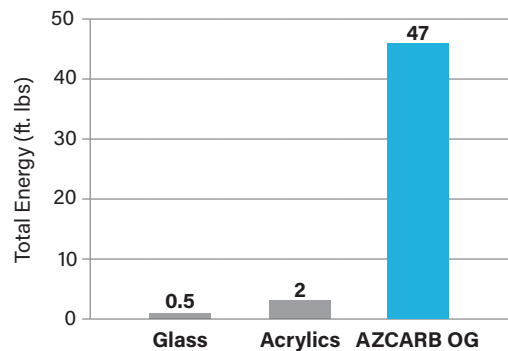
PROPERTY	TEST METHOD	UNITS	AZCARB OG
MECHANICAL			
Tensile strength, yield	ASTM D638	psi	9,000
Tensile strength, ultimate	ASTM D638	psi	9,500
Tensile modulus	ASTM D638	psi	340,000
Tensile elongation	ASTM D638	%	110
Flexural strength	ASTM D790	psi	14,000
Flexural modulus	ASTM D790	psi	340,000
Compressive strength	ASTM D695	psi	12,500
Compressive modulus	ASTM D695	psi	340,000
Izod impact strength, notched @ 1/8"	ASTM D256	ft-lbs/inch	16
Instrumental drop dart, 1/8"	ASTM D3763	ft-lbs	>50
Shear strength @ yield	ASTM D732	psi	5,800
THERMAL			
Coefficient of thermal expansion	ASTM D696	in/in/°F	0
Coefficient of thermal conductivity	ASTM C177	BTU-in/hr-sq ft-°F	1
DTUFL @ 264 psi	ASTM D648	°F	275
U Value (summer gain, winter loss)	-	BTU-in/hr-sq ft-°F	0.98, 1.06
Dielectric constant, test @ 0.125" thick	ASTM D149	volts/mil	380 @ 25°
Dielectric constant	ASTM D150		C
60 Hz		-	450 @ 100°
Volume resistivity @ 23° C		ohm/cm	3
FLAMMABILITY			
Horizontal burn rate	ASTM D257	inches	<1 (CC-1)
Ignition temperature	ASTM D635	° F	1,090
Smoke developed	ASTM D1929	-	70

¹ Values reported are averages and should not be used for specification purposes. ² Test performed on 0.118" (3mm) thick specimens; all other test specimens 0.236" (6mm) thick. Note: NB=no break.

AZCARB OG INVENTORY

SIZES FOR QUICK SHIP	GAUGE (IN.)	WIDTH (IN.)	LENGTH (IN.)
	0.060	51.50	98.00
	0.118	51.50	98.00
	0.177	51.50	98.00
	0.220	51.50	98.00
	0.236	51.50	98.00
	0.354	51.50	98.00
	0.472	51.50	98.00
	0.118	63.50	98.00
	0.177	63.50	98.00
	0.236	63.50	98.00
0.220	75.50	98.00	
0.236	75.50	98.00	
0.354	75.50	98.00	
0.472	75.50	98.00	

IMPACT RESISTANCE*



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



AZCARB OG 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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