

AZCARB



AZCARB GP General Purpose Polycarbonate Sheet

AZCARB GP is a polished surface, UV stabilized, transparent polycarbonate sheet. It features outstanding impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. It is ideal in applications including machine guards, interior safety glazing, thermoformed parts, fabricated components, vending fronts and indoor signage. AZCARB GP sheet is offered with a five (5) year Limited Product Warranty against breakage.

- High Impact Strength – 300x stronger than glass and 30x stronger impact strength than standard Acrylic
- High clarity and light transmission
- Lightweight
- Dimensionally stable
- Temperature resistant
- Easily fabricated & thermoformed
- Screen printable
- Recyclable

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TYPICAL STANDARD PROPERTIES¹

PROPERTY	TEST METHOD	UNITS	AZCARB GP
PHYSICAL			
Specific gravity	ASTM D792	N/A	1.2
Refractive index @ 72°F	ASTM D542	-	1.586
Light transmission, clear 1/8"	ASTM D1003	%	87
Haze	ASTM D1003	%	1
Rockwell hardness	ASTM D785	M scale	70
Water absorption, equilibrium, 24 hrs	ASTM D570	%	0.15
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	340,000
Compression strength	ASTM D695	psi	12,500
Compression modulus	ASTM D695	psi	340,000
Poisson's ratio	N/A	N/A	0.38
Izod impact strength, notched @ 1/8"	ASTM D256	ft-lbs/inch	16
Charpy impact	ASTM D256	ft-lbs/inch	no break
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	0.0000380
Coefficient of thermal conductivity	ASTM D177	BTU-in/hr-sq ft-°F	1.35
DTUFL @ 264 psi	ASTM D648	°F	275
UValue (summer gain, winter loss)		BTU-in/hr-sq ft-°F	0.98, 1.06
ELECTRICAL			
Dielectric constant, test @ 0.125" thick	ASTM D149	volts/mil	380 @ 25°C
Dielectric constant	ASTM D150		
60 Hz			2.9
1,000,000 Hz			2.9
Volume resistivity @ 23°C	ASTM D257	ohm/cm	10x16
FLAMMABILITY			
Horizontal burn rate	ASTM D635	inches	<1 (CC-1)
Ignition temperature	ASTM D1929	°F	1,090
Smoke developed	ASTM D2843	N/A	70

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

AZCARB GP 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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