

AZCARB



AZCARB RENEW Polycarbonate Sheet

AZCARB RENEW is the first truly closed loop sustainable extruded polycarbonate sheet. AZCARB RENEW is domestically manufactured in Gurnee, IL utilizing the newest state-of-the-art extrusion technology in an ISO 8 certified clean room environment. Our inline downstream optical scanning ensures the highest quality. Each production lot of AZCARB RENEW is tested to meet or exceed general purpose polycarbonate sheet for impact and optical characteristics. Ideal applications include screen printed vending fronts, machine guards, thermoformed parts, POP displays in high traffic areas, signage and many others.

AZ Polymers along with our sister company United Plastics, has the unique capability and the proprietary processes to efficiently coordinate the reclaiming of post-consumer and industrial polycarbonate feedstock, sort, identify and document the appropriate stream, de-mask, granulate, clean/dedust and certify for reprocessing into AZCARB RENEW Polycarbonate Sheet.



Reclaim • Recycle • Reuse

- Sustainable closed loop
- Could used towards LEEDS Materials & Resources credit
- Gauge Range of .093" to .375"
- Available in UV2 weatherable sign/glazing grade
- Superior clarity, optics & Impact Strength
- Dimensionally stable due to low shrink rate
- High light transmission & low haze
- Thermoformable
- 200x stronger than glass and 20x stronger than standard Acrylic
- Screen printable with excellent surface energy
- Saw, punch, router, drill, cold & heat bendable
- Limited five (5) year warranty against breakage



AZCARB RENEW Polycarbonate Sheet

TYPICAL STANDARD PROPERTIES¹

PROPERTY	TEST METHOD	UNITS	AZCARB RENEW
PHYSICAL			
Specific gravity	ASTM D792	N/A	1.2
Rockwell hardness	ASTM D785	M scale	60
OPTICAL			
Refractive index @ 72°F	ASTM D542	N/A	1.588
Light Transmission, clear @ 0.118"	ASTM D1003	%	84
Haze	ASTM D1003	%	1.1
MECHANICAL			
Tensile strength, yield	ASTM D638	psi	8,800
Tensile strength, ultimate	ASTM D638	psi	9,150
Tensile modulus	ASTM D638	psi	300,000
Tensile elongation	ASTM D638	%	150
Flexural strength, yield	ASTM D790	psi	14,000
Flexural modulus	ASTM D790	psi	348,000
Izod impact strength, notched	ASTM D256	ft-lbs/inch	2.1
Charpy impact, notched	ASTM D6110	ft-lbs/inch	2.8
Instrumental drop dart	ASTM D3763	ft-lbs	96
THERMAL			
Deflection Temperature Under Flexural Load @ 66psi	ASTM D648	°F	288
Deflection Temperature Under Flexural Load @ 264psi	ASTM D648	°F	279

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

- Data given are typical average values and should not be used for specific purposes
- There are no Quality Specifications associated with this products
- All testing performed at 0.220' to 0.118" thickness unless otherwise specified
- All samples conditioned for at least 24 hours at 77°F ± 2°F and 50% RH ± 5%



Sheet Details:

Standard sizes: 4'x8', 5'x8', 6'x8'. Standard colors: clear and black.

Run to size & oversize sheet quoted upon request. Gray and bronze available.

AZCARB RENEW 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.

See SDS for Health & Safety Considerations. AZPolymers and AZCARB are trademarks of AZPolymers. M2022 AZPolymers, LLC. All rights reserved.



azpolymersllc.com

5675 Centerpoint Court
Gurnee, IL 60031
(224) 656-5822

sales@azpolymersllc.com