

AZCRYL



AZCRYL RENEW GP Cell Cast Acrylic Sheet

AZCRYL RENEW GP cell-cast acrylic sheets, made from 100% Recycled MMA (methyl methacrylate monomer) are manufactured to exacting standards, offering long term optical clarity, chemical resistance, weatherability & low internal stress levels for consistent performance.

AZCRYL RENEW GP looks, performs, fabricates & lasts as long as standard 100% virgin acrylic sheet. It can be CNC machined, engraved, laser cut, hot bent, solvent bonded, thermoformed, polished & digital flatbed printed, and is an excellent choice for virgin acrylic & glass replacement projects. Applications include retail POP displays, furniture & signage.

AZ Polymers along with our sister company United Plastics, has the unique capability & the proprietary processes to efficiently coordinate the reclaiming of post-consumer and industrial acrylic feedstock; sort, identify and document the appropriate stream; de-mask, then certify for reprocessing into **AZCRYL RENEW GP** Polycarbonate Sheet. The recycled MMA is obtained by a de-polymerization process that recovers liquid monomer from PMMA.



Reclaim • Recycle • Reuse

- Sustainable closed loop
- LEEDS Materials & Resources credit applicable
- Gauge Range of 0.118" to 1.00"
- High clarity with up to 92% light transmission
- Rigid and lightweight - half the weight of glass
- Easily fabricated and thermoformed
- 100% recyclable
- Standard sheet size 4' x 8'
- White available in 7238, 2447, 7508
- Black available in 2025
- P95 one side or two sides
- UL and NSF Certified, FDA and ADA Compliant
- Limited ten (ten) year warranty

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TYPICAL STANDARD PROPERTIES

PROPERTY	TEST METHOD	UNITS	AZCRYL GP SHEET
GENERAL			
Relative Density	ISO 1183	g/cm ³	1.19
Water Absorption	ISO 62	%	0.3
MECHANICAL PROPERTIES			
Tensile Strength @23°C	ISO 527	Mpa	70
Elongation at Break @23°C	ISO 527	%	4
Flexural Strength	ISO 178	MPa	114
Flexural Modulus	ISO 178	MPa	3200
Impact Strength - Charpy-unnotched	ISO 179 / I fu	kJ.m ⁻²	12
Izod Impact Strength, notched	ISO 180/ I A	kJ.m ⁻²	1.4
Rockwell Hardness	ISO 2039-2	M scale	95
THERMAL PROPERTIES			
Vicat Softening Point	ISO 306 A	°C	>110
Coefficient of Thermal - Expansion-Linear	ASTM D696	x 10 ⁵ . K ⁻¹	7
Flammability UL94 HB	UL94		HB
OPTICAL PROPERTIES			
Light Transmission	ASTM D1003	%	>92
Refractive Index	ISO 489 A	°C	1.49
ELECTRICAL PROPERTIES			
Surface Resistivity	IEC 93	Ω	>10 ¹⁴
Electrical Strength	IEC 243	kV/mm	30

Note:
The typical standard property values quoted are not always strictly equivalent and are based on tests on representative samples. The information given in this publication is based on our general experience and given in good faith. It is intended as a general guide and must not be considered as a binding specification.

In no way does this information incur the liability of AZ Polymers LLC, especially in infringement of the rights of a third party.

AZCRYL Acrylic 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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