

# AZCARB



## AZCARB RENEW UV2 Polycarbonate Sheet

**AZCARB RENEW UV2** is the first truly closed loop sustainable Post Consumer extruded polycarbonate sheet. AZCARB RENEWUV2 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 UV2 is tested to meet or exceed Virgin UV Capped Weatherable Sign Grade polycarbonate. Ideal applications including outdoor signage, formed skylight and transit shelters.

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 post-industrial polycarbonate feedstock, sort, identify and document the appropriate stream and certify for proprietary reprocessing into AZCARB RENEW UV2 Polycarbonate Sheet.

- Sustainable closed loop
- Could used towards LEEDS Materials & Resources credit
- Gauge Range of .093" to .375"
- Available in UV2 weatherable sign/glazing grade  
Sign reels up to 8' and oversize sheets
- Superior clarity, optics & Impact Strength
- Dimensionally stable due to low shrink rate
- High light transmission & low haze
- Thermoformable
- 20x stronger than standard Acrylic
- Screen printable with excellent surface energy
- Saw, punch, router, drill, cold & heat bendable
- Post-consumer reprocessed polycarbonate sheet
- Limited ten (10) year warranty against light transmission in the UV2 format



## AZCARB RENEW UV2 Polycarbonate Sheet

TYPICAL STANDARD PROPERTIES<sup>1</sup>

| PROPERTY  | TEST METHOD | UNITS       | AZCARB RENEW UV2 |
|---|-------------|-------------|------------------|
| <b>PHYSICAL</b>                                     |             |             |                  |
| Specific gravity                                    | ASTM D792   | N/A         | 1.2              |
| Rockwell hardness                                   | ASTM D785   | M scale     | 60               |
| <b>OPTICAL</b>                                      |             |             |                  |
| Refractive index @ 72°F                             | ASTM D542   | N/A         | 1.588            |
| Light Transmission, clear @ 0.118"                  | ASTM D1003  | %           | 84               |
| Haze  | ASTM D1003  | %           | 1.1              |
| <b>MECHANICAL</b>                                   |             |             |                  |
| 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               |
| <b>THERMAL</b>                                      |             |             |                  |
| Deflection Temperature Under Flexural Load @ 66psi  | ASTM D648   | °F          | 288              |
| Deflection Temperature Under Flexural Load @ 264psi | ASTM D648   | °F          | 279              |

<sup>1</sup>Wall Data give a 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 UV2 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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