AZCARB

AZCARB UV2 Polycarbonate Sheet and Reels

AZCARB UV2 Weatherable Polycarbonate sheet is produced via a proprietary process which creates a built-in protective UV barrier on the surface of the sheet. Unlike our competitors we UV Cap both sides of the Sheet or Reel. This eliminates any possibility of incorrect installation. The result is reduced yellowing, improved haze resistance, and improved light transmission over time vs General-Purpose polycarbonate sheet. This sheet is ideal for the sign, glazing, barrel vaults & skylight applications.

- Standard UV Enhanced both sides
- Excellent surface energy for digital & UV inks
- Available in Clear, White, Black & Tints
- Thickness Available .040" to .500"
- Available in Matte, Prismatic & Pebble Textures
- Easily fabricated, thermoformed and decorated
  - Available in Sign Matte One Side
- Available in full web & trimmed reels or sheet
  - Oversize sheets available over 275”
- Limited ten (10) year warranty against!yellowing & light transmission

AZ Polymers
azpolymersllc.com

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AZCARB UV Weatherable Polycarbonate Sheet

TYPICAL STANDARD PROPERTIES[1]

PROPERTY	TEST METHOD	UNITS	AZCARB UV
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
Light transmission , 7130 Gray & 5109 Bronze 1/8"	ASTM D1003	%	50
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
Vicat Softening Temp. (50N)	ISO 306	°C	144
ELECTRICAL			
Dielectric constant, test @ 0.125" thick	ASTM D149	volts/mil	380 @ 25°C
Dielectric constant	ASTM D150		
60 Hz			2.90
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

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

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