

Evonik CYRO Cyrolon® AR Polycarbonate Sheet

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Optical Grade

Material Notes:

Data provided by CYRO Industries Continuously manufactured sheet with better impact and heat resistance than typical acrylic sheet. Offers protection against weathering. Used for windows, skylights, signs, displays, vending machine panels, machine guards, safety glazing, and bus shelters.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Cyrolon-AR-Polycarbonate-Sheet.php

Physical Properties	Metric	English	Comments
Water Absorption	0.15 %	0.15 %	24 hrs, 23°C; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Tensile Modulus	2.34 GPa	339 ksi	ASTM D638
Flexural Yield Strength	122 MPa	17700 psi	ASTM D790
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Compressive Yield Strength	76.0 MPa	11000 psi	ASTM D695
Izod Impact, Notched	9.70 J/cm	18.2 ft-lb/in	ASTM D256
Impact Test	68.0 J @Thickness 3.00 mm	50.2 ft-lb @Thickness 0.118 in	Instrumented dart; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 °C	37.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ASTM D648
Vicat Softening Point	157 °C	315 °F	ASTM D1525
Flammability, UL94	>= V-2	>= V-2	UL 94 V-2, or better, depending on thickness

Thermal Properties	Metric	English	Comments
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Refractive Index	1.59	1.59	ASTM D542
Transmission, Visible	87 %	87 %	ASTM D1003
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 60 Hz	3.0 @Frequency 60 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm @Thickness 3.20 mm	381 kV/in @Thickness 0.126 in	Short Time; ASTM D149
Dissipation Factor	0.00090 @Frequency 60 Hz	0.00090 @Frequency 60 Hz	ASTM D150
Processing Properties	Metric	English	Comments
Processing Temperature	180 - 210 °C	356 - 410 °F	forming temperature

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