

Evonik CYRO Acrylite® GP Acrylic Sheet, Cast

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Cast

Material Notes:

Data provided by CYRO Industries Cast sheet - made to very tight thickness tolerances. Weather resistant, easily fabricated. Used in displays, light diffusers, security glazing, aquariums, hockey rinks, shower enclosures, and skylights.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-GP-Acrylic-Sheet-Cast.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hrs, 23°C; ASTM D570
Water Absorption at Saturation	1.1 %	1.1 %	48 days immersion

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	49	49	ASTM D2583
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	4.2 %	4.2 %	ASTM D638
Tensile Modulus	2.80 GPa	406 ksi	ASTM D638
Flexural Yield Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	ASTM D790
Compressive Yield Strength	124 MPa	18000 psi	ASTM D695
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.47 J/g·°C	0.351 BTU/lb·°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	Cenco-Fitch test
Maximum Service Temperature, Air	82.0 °C	180 °F	Continuous service temperature
	93.0 °C	199 °F	Short-term

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.60e+16 ohm-cm	1.60e+16 ohm-cm	ASTM D257
Surface Resistance	1.90e+15 ohm	1.90e+15 ohm	ASTM D257
Dielectric Constant	2.7	2.7	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	Short time; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.060	0.060	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	171 - 193 °C	340 - 379 °F	forming temperature

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