

Evonik CYRO Acrylite® FF Acrylic Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Sheet

Material Notes:

Data provided by CYRO Industries Continuously manufactured sheet, weather resistant, easy to fabricate. Used in skylights, RVs, boat, motorcycle, and snowmobile fairings, signs, displays, and boutique items.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-FF-Acrylic-Sheet.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

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	48	48	ASTM D2583
Hardness, Rockwell M	93	93	ASTM D785
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Tensile Modulus	2.80 GPa	406 ksi	ASTM D638
Flexural Yield Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	ASTM D790
Compressive Yield Strength	117 MPa	17000 psi	ASTM D695
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 μm/m-°C	37.8 μin/in-°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	71.0 °C	160 °F	Continuous service temperature
	88.0 °C	190 °F	Short-term
Deflection Temperature at 1.8 MPa (264 psi)	91.0 °C	196 °F	ASTM D648

Heat Softening Point Thermal Properties	115 °C Metric	239 °F English	ASTM D1525 Comments
Minimum Service Temperature, Air	-34.0 °C	-29.2 °F	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Constant	2.8	2.8	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.6	3.6	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	
	0.060	0.060	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	143 - 159 °C	289 - 318 °F	forming temperature

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