

Evonik CYRO XT® Polymer 2000-5052 Acrylic-Based Multipolymer Molding Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Grade, Molded

Material Notes:

Data provided by CYRO Industries Uses: molding applications where clarity, gloss, toughness, and resistance to fatty acids are of primary importance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-XT-Polymer-2000-5052-Acrylic-Based-Multipolymer-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Viscosity	2.00e+6 cP	2.00e+6 cP	Approximate value
	@Shear Rate 100 1/s, Temperature 240 °C	@Shear Rate 100 1/s, Temperature 464 °F	
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	
Spiral Flow	74.0 cm	29.1 in	215°C; 1/4 in half round channel

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	60	60	ASTM D785
Tensile Strength, Ultimate	61.0 MPa	8850 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.40 GPa	493 ksi	ASTM D638
Flexural Yield Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	bar; ASTM D256
	@Diameter 6.35 mm	@Diameter 0.250 in	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.90 J/g-°C	0.454 BTU/lb-°F	

Thermal Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	Comments
	2.30 J/g-°C	0.550 BTU/lb-°F	
	@Temperature 175 °C	@Temperature 347 °F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	ASTM D648
Vicat Softening Point	94.0 °C	201 °F	ASTM D1525
Oxygen Index	17.2 %	17.2 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.515	1.515	ASTM D542
Haze	4.0 %	4.0 %	ASTM D1003
Transmission, Visible	84 %	84 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	216 - 249 °C	421 - 480 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China