

## Evonik CYRO XT® Polymer X800RH Acrylic-Based Multipolymer Molding Compound

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

### Material Notes:

Data provided by CYRO Industries Uses: medical devices, molded applications; sterilizable by radiation or ethylene oxide

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-CYRO-XT-Polymer-X800RH-Acrylic-Based-Multipolymer-Molding-Compound.php](http://www.lookpolymers.com/polymer_Evonik-CYRO-XT-Polymer-X800RH-Acrylic-Based-Multipolymer-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.650 g/cc	0.0235 lb/in <sup>3</sup>	ASTM D1895
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D551
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 230 °C	8.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ASTM D638
Elongation at Break	8.3 %	8.3 %	ASTM D638
Elongation at Yield	3.5 %	3.5 %	ASTM D638
Tensile Modulus	2.10 GPa	305 ksi	ASTM D638
Flexural Yield Strength	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Compressive Yield Strength	56.0 MPa	8120 psi	ASTM D695
Izod Impact, Notched	1.30 J/cm @Diameter 6.35 mm	2.44 ft-lb/in @Diameter 0.250 in	bar; ASTM D256
	0.800 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	1.50 ft-lb/in @Diameter 0.250 in, Temperature 32.0 °F	bar; ASTM D256
Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	J/cm; ASTM D256

Thermal Properties	Metric	English	Comments
	83.0 µm/m-°C	46.1 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	ASTM D696 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	
	@Temperature 100 °C	@Temperature 212 °F	
	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 <sup>2</sup> -°F	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	ASTM D648
Vicat Softening Point	98.0 °C	208 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Transmission, Visible	88 %	88 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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