

Evonik CYRO CYROLITE CYROVU HP2 Acrylic-Based Multipolymer Compound

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-CYROLITE-CYROVU-HP2-Acrylic-Based-Multipolymer-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D951
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 230 °C	6.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	60	60	ASTM D785
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Tensile Modulus	2.96 GPa	430 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Diameter 3.17 mm	0.700 ft-lb/in @Diameter 0.125 in	bar; ASTM D256
	0.374 J/cm @Diameter 6.35 mm	0.700 ft-lb/in @Diameter 0.250 in	BAR; ASTM D256
	0.267 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	0.500 ft-lb/in @Diameter 0.250 in, Temperature 32.0 °F	BAR; ASTM D256

Thermal Properties	Metric	English	Comments
	72.0 μm/m-°C	40.0 μin/in-°F	

Thermal Properties	Metric	English	Comments
	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C @Thickness 6.35 mm	180 °F @Thickness 0.250 in	Annealed; ASTM D648
Vicat Softening Point	96.1 °C	205 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	193 - 246 °C	380 - 475 °F	Cylinder Temp
Melt Temperature	204 - 246 °C	400 - 475 °F	
Mold Temperature	43.3 - 65.6 °C	110 - 150 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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