

Evonik CYRO CYROLITE R30 Acrylic-Based Multipolymer Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-CYROLITE-R30-Acrylic-Based-Multipolymer-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Bulk Density	0.660 g/cc	0.0238 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 L	47	47	ASTM D785
Tensile Strength at Break	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	22 %	22 %	ASTM D638
Elongation at Yield	4.2 %	4.2 %	ASTM D638
Tensile Modulus	1.65 GPa	240 ksi	ASTM D638
Flexural Strength	61.4 MPa	8900 psi	ASTM D790
Flexural Modulus	1.59 GPa	230 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Diameter 6.35 mm	1.40 ft-lb/in @Diameter 0.250 in	BAR; ASTM D256
	0.641 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	1.20 ft-lb/in @Diameter 0.250 in, Temperature 32.0 °F	BAR; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C @Temperature 0.000 - 100 °C	40.0 µin/in-°F @Temperature 32.0 - 212 °F	ASTM D696

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	81.1 °C @Thickness 6.35 mm	178 °F @Thickness 0.250 in	ASTM D648
Vicat Softening Point	97.2 °C	207 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.52	1.52	ASTM D542
Haze	2.0 %	2.0 %	ASTM D1003
Yellow Index	-1.50 %	-1.50 %	ASTM E313
Transmission, Visible	88 %	88 %	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	32.2 - 65.6 °C	90.0 - 150 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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