

Evonik CYRO Acrylite Plus® H-16 Acrylic Molding Compound

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

Material Notes:

This material has been replaced by Acrylite Plus® ZK-6 - same physical properties with lower haze. Data provided by CYRO Industries Uses: auto lenses and trim, glazing, sanitary ware, engraving stock.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-Plus-H-16-Acrylic-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D551
Melt Flow	1.6 g/10 min @Load 3.80 kg, Temperature 230 °C	1.6 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	45	45	ASTM D785
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Yield Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Diameter 6.35 mm	0.993 ft-lb/in @Diameter 0.250 in	bar; ASTM D256
	0.270 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	0.506 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	

Thermal Properties	Metric	English	Comments
Modulus at 1.8 MPa (264 psi)	35.1 °C	100 °F	Annexed, ASTM D648
Vicat Softening Point	108 °C	226 °F	ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	<= 3.0 %	<= 3.0 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 248 °C	450 - 478 °F	

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