

Evonik CYRO Acrylite Plus® H-17 H Acrylic Molding Compound

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

Material Notes:

Data provided by CYRO Industries Uses: medical devices

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-Plus-H-17-H-Acrylic-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D551
Melt Flow	11 g/10 min @Load 3.80 kg, Temperature 230 °C	11 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	58	58	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	9.5 %	9.5 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm @Diameter 6.35 mm	0.656 ft-lb/in @Diameter 0.250 in	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	
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	Annealed; ASTM D648
Vicat Softening Point	102 °C	216 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	<= 3.0 %	<= 3.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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

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