

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

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

Material Notes:

This material has been replaced by Acrylite Plus® ZK-P - same physical properties with lower haze. Data provided by CYRO IndustriesUses: toys, molded applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-Plus-H-17-P-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	4.3 g/10 min @Load 3.80 kg, Temperature 230 °C	4.3 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	71	71	ASTM D785
Tensile Strength, Ultimate	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	9.5 %	9.5 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	ASTM D638
Flexural Yield Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.240 J/cm @Diameter 6.35 mm	0.450 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)	87.0 °C	189 °F	Annealed; ASTM D648
Vicat Softening Point	109 °C	228 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
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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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