

Evonik CYRO ACRYLITE® H15 Acrylic Polymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Extruded , Acrylic, General Purpose, Molded

Material Notes:

ACRYLITE® H15 acrylic polymer is an amorphous thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA). Typical properties of ACRYLITE® acrylic polymers are excellent weather resistance, high light transmission, high mechanical strength, high surface hardness and mar resistance, good melt flow rate, and versatile colorability due to crystal clarity. The special properties of ACRYLITE H15 polymer are medium heat resistance, high melt strength, UV light absorption options, lubricant options, and AMECA listed. Application: Used for injection molding and extrusion of optical and technical parts. Information Provided by Evonik CYRO

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-ACRYLITE-H15-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Bulk Density	0.660 g/cc	0.0238 lb/in ³	ASTM D1895
Water Absorption at Saturation	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	2.2 g/10 min @Load 3.80 kg, Temperature 230 °C	2.2 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength at Break	67.6 MPa	9800 psi	ASTM D638
Elongation at Break	4.0 - 6.0 %	4.0 - 6.0 %	ASTM D638
Elongation at Yield	4.0 - 6.0 %	4.0 - 6.0 %	ASTM D638
Tensile Modulus	3.24 GPa	470 ksi	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 ksi	ASTM D790
Izod Impact, Notched	0.192 J/cm @Temperature 23.0 °C	0.360 ft-lb/in @Temperature 73.4 °F	1/4" bar; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696

Thermal Properties	Metric @Temperature 0.000 - 100 °C	English @Temperature 32.0 - 212 °F	Comments
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C @Thickness 6.35 mm	203 °F @Thickness 0.250 in	Annealed; ASTM D648
Vicat Softening Point	105 °C	221 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Yellow Index	<= 1.0 %	<= 1.0 %	ASTM D1925
Transmission, Visible	92 %	92 %	ASTM D1003

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	238 - 249 °C	460 - 480 °F	
Melt Temperature	238 - 249 °C	460 - 480 °F	
Mold Temperature	32.2 - 79.4 °C	90.0 - 175 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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