

Evonik CYRO Acrylite® DQ 501 Compound Molding and Extrusion

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

Material Notes:

ACRYLITE® SuPure™ acrylic polymer is an exceptional pure polymer designed for applications that demand maximum cleanliness. Our proprietary purification process starts at CYRO's manufacturing plant and extends all the way to your facility's processing point – for a total purity solution. It ensures a polymer free of dust, fines and contaminants that consistently delivers exceptional clarity and eliminates costly defects. Information provided by Cyro Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-DQ-501-Compound-Molding-and-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D551
Melt Flow	6.0 g/10 min @Load 3.80 kg, Temperature 230 °C	6.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93	93	ASTM D785
Tensile Strength, Yield	72.0 MPa	10400 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	3.00 GPa	435 ksi	ASTM D638
Flexural Strength	111.7 MPa	16200 psi	ASTM D790
Flexural Modulus	3.40 GPa	493 ksi	ASTM D790
Izod Impact, Notched	0.192 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.360 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	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
Vicat Softening Point	114 °C	237 °F	ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

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