

Evonik CYRO Acrylite Plus® NTA-3 NTA Compound

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

Material Notes:

High heat deflection temperature and impact strength on same level as standard ACRYLITE polymers, optimized for thermal/humidity cycling test.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-Plus-NTA-3-NTA-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ISO 294
Melt Flow	3.1 g/10 min @Load 3.80 kg, Temperature 230 °C	3.1 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.3 MPa	10200 psi	ISO 527
Elongation at Break	3.4 %	3.4 %	ISO 527
Elongation at Yield	3.4 %	3.4 %	ISO 527
Tensile Modulus	3.10 GPa	450 ksi	ISO 527
Flexural Strength	80.7 MPa	11700 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Izod Impact, Unnotched (ISO)	1.50 kJ/m ² @Diameter 4.00 mm	0.714 ft-lb/in ² @Diameter 0.157 in	bar; ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear	73.8 µm/m-°C @Temperature 0.000 - 100 °C	41.0 µin/in-°F @Temperature 32.0 - 212 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	111 °C	232 °F	annealed; ISO 75
Vicat Softening Point	115 °C	239 °F	ISO 306

Optical Properties	Metric	English	Comments
Transmission, Visible	0.0 %	0.0 %	Opaque; ASTM D1003

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	221 - 260 °C	430 - 500 °F	Cylinder Temp
Melt Temperature	221 - 260 °C	430 - 500 °F	
Mold Temperature	48.9 - 85.0 °C	120 - 185 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	2 - 3 hour	2 - 3 hour	

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