

Evonik CYRO CYROLITE G20-HIFLO Acrylic-Based Multipolymer Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Gamma Radiation Resistant, Molded

Material Notes:

CYROLITE G-20 HIFLO compound is an impact-modified acrylic-based multipolymer for molding and extrusion of medical applications.

Typical properties of CYROLITE compound are:excellent chemical resistance to fats and oilsexcellent bonding and welding

capabilitiesexcellent bonding to PVC tubinggood impact strengthgood light transmissiongood resistance to EtO, gamma and E-beam

sterilization The special properties of CYROLITE G-20 HIFLO compound are:excellent melt flow ratgood heat resistanceApplications: Used

for injection molding and extrusion of medical devices, medical packaging, as well as toys and appliance parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-CYROLITE-G20-HIFLO-Acrylic-Based-Multipolymer-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D951
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 230 °C	10 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	27	27	ASTM D785
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	9.5 %	9.5 %	ASTM D638
Elongation at Yield	3.6 %	3.6 %	ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	ASTM D638
Flexural Strength	64.8 MPa	9400 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm @Diameter 6.35 mm	1.90 ft-lb/in @Diameter 0.250 in	BAR; ASTM D256
	0.587 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	1.10 ft-lb/in @Diameter 0.250 in, Temperature 32.0 °F	BAR; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	92.5 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	51.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 0.000 - 100 $^{\circ}\text{C}$	@Temperature 32.0 - 212 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	85.6 $^{\circ}\text{C}$	186 $^{\circ}\text{F}$	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	101 $^{\circ}\text{C}$	214 $^{\circ}\text{F}$	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.51	1.51	ASTM D542
Haze	6.0 %	6.0 %	ASTM D1003
Yellow Index	-0.300 %	-0.300 %	ASTM E313
Transmission, Visible	89 %	89 %	ASTM D1003

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	182 - 238 $^{\circ}\text{C}$	360 - 460 $^{\circ}\text{F}$	Cylinder Temp
Melt Temperature	193 - 238 $^{\circ}\text{C}$	380 - 460 $^{\circ}\text{F}$	
Mold Temperature	48.9 - 82.2 $^{\circ}\text{C}$	120 - 180 $^{\circ}\text{F}$	
Drying Temperature	79.4 $^{\circ}\text{C}$	175 $^{\circ}\text{F}$	
Dry Time	3 - 4 hour	3 - 4 hour	

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