

Evonik CYRO XT® Polymer X800RG Acrylic-Based Multipolymer Compound

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

Material Notes:

XT polymer X800RG compound is an impact-modified acrylic-based multipolymer for molding, extrusion and blow molding applications. Typical properties of XT polymer compounds are: outstanding thermoformability superior heat distortion temperature excellent bonding and welding capabilities good impact strength good light transmission resistant to EtO, gamma and E-beam sterilization resistant to PVC plasticizers The special property of XT polymer 375 compound is high melt flow rate good chemical resistance Application: Used for food packaging and appliance parts

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-XT-Polymer-X800RG-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	11 g/10 min @Load 5.00 kg, Temperature 230 °C	11 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	22	22	ASTM D785
Tensile Strength at Break	43.4 MPa	6300 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Tensile Modulus	2.96 GPa	430 ksi	ASTM D638
Flexural Strength	66.9 MPa	9700 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 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
	0.641 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	1.20 ft-lb/in @Diameter 0.250 in, Temperature 32.0 °F	BAR; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	86.4 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	48.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	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	93.9 $^{\circ}\text{C}$	201 $^{\circ}\text{F}$	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.51	1.51	ASTM D542
Haze	5.0 %	5.0 %	ASTM D1003
Yellow Index	-1.00 %	-1.00 %	ASTM E313
Transmission, Visible	86 %	86 %	ASTM D1003

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	218 - 246 $^{\circ}\text{C}$	425 - 475 $^{\circ}\text{F}$	Cylinder Temp
Melt Temperature	218 - 246 $^{\circ}\text{C}$	425 - 475 $^{\circ}\text{F}$	
Mold Temperature	48.9 - 76.7 $^{\circ}\text{C}$	120 - 170 $^{\circ}\text{F}$	
Drying Temperature	82.2 $^{\circ}\text{C}$	180 $^{\circ}\text{F}$	
Dry Time	3 - 4 hour	3 - 4 hour	

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