

Solvay Specialty Polymers Cogegum® GFR/320 Polyolefin

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Cogegum® XLPO-HFFR - Crosslinkable Halogen Free Fire Retardant compound. Silane grafted compound moisture curable by addition of a catalyst masterbatch (Sioplas® method). It consists of a polyolefin base containing a fire retardant system that contributes to give the cable self-extinguish properties without halogenidric acids evolution, toxic and corrosive gases and dark smoke emission. This material complies with RoHS requirements. Features: Crosslinkable; Flame Retardant; Halogen Free; Low Smoke Emission; Low Toxicity; Self Extinguishing Uses: Cable Jacketing; Low Voltage Insulation; Wire & Cable Applications Additional Properties: Bending Test - IEC 60811 (-40Â°C): Pass; Calorific Potential - ISO 1716 20.7 MJ/kg; Collar Temperature - 170 to 185 Â°C; Corrosive Gas in Smoke - IEC 60754-2 < 10.0 ÂµS/mm; Corrosive Gas in Smoke - GE > 4.30; Dielectric Constant - ASTM D150 3.70; Fluid Resistance - Change in Elongation at Break - UL 1581 (23Â°C): 10 %; Fluid Resistance - Change in Tensile Strength - UL 1581 (23Â°C): -3.0 %; Halogenidric Acid Emissions - IEC 60754-1 < 0.10 %; Head Temperature - 180 to 195 Â°C; Hot Air Shrinkage - IEC 60811 (100Â°C): < 4.0 %; Hot Pressure Test - IEC 60811 (100Â°C): < 50 %; Hot Set - IEC 60811 45 %; Hot Set - IEC 60811 5.0 %; Insulation Resistance Constant - IEC 60502 (20Â°C): 2500 MohmÂ·km; Insulation Resistance Constant - IEC 60502 (90Â°C): 100 MohmÂ·km; Temperature Index (Burning) - NES 715 280 Â°C; Water Absorption - IEC 60811 (70Â°C): 0.170 mg/cmÂ²; Water Absorption - IEC 60811 (100Â°C): 0.500 mg/cmÂ² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-GFR320-Polyolefin.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/inÂ³	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour @Thickness 3.00 mm, Temperature 50.0 Â°C	>= 1000 hour @Thickness 0.118 in, Temperature 122 Â°F	Condition A, Compression Molded, 10% Igepal; ASTM D1693
Melt Flow	4.8 g/10 min @Load 21.6 kg, Temperature 190 Â°C	4.8 g/10 min @Load 47.6 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	ASTM D638
Elongation at Break	240 %	240 %	ASTM D638

Thermal Properties	Metric	English	Comments
Oxygen Index	36 %	36 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Electrical Properties	2.70e+13 ohm-cm Metric	2.70e+13 ohm-cm English	Comments
Volume Resistivity	@Temperature 90.0 Â°C	@Temperature 194 Â°F	ASTM D257
	6.80e+14 ohm-cm	6.80e+14 ohm-cm	ASTM D257
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	

Processing Properties	Metric	English	Comments
Zone 1	140 - 150 Â°C	284 - 302 Â°F	
Zone 2	150 - 165 Â°C	302 - 329 Â°F	
Zone 3	160 - 175 Â°C	320 - 347 Â°F	
Zone 4	170 - 185 Â°C	338 - 365 Â°F	
Die Cooling Temperature	210 - 230 Â°C	410 - 446 Â°F	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	
RoHS Compliance	RoHS Compliant	

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