

Solvay Specialty Polymers Cogegum® GFR/350 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. 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 (-15°C): No cracks; Calorific Potential - ISO 1716

18.6 MJ/kg; Collar Temperature - 160 to 180 °C; Corrosive Gas in Smoke - IEC 60754-2 < 10.0 µS/mm; Corrosive Gas in Smoke - IEC

60754-2 > 4.30; Halogenidric Acid Emissions - IEC 60754-1 < 0.10 %; Head Temperature - 160 to 180 °C; Hot Air Shrinkage - IEC 60811

(100°C): < 4.0 %; Hot Pressure Test - IEC 60811 (100°C): < 50 %; Hot Set - IEC 60811 50 %; Hot Set - IEC 60811 0.0 %; Impact Test - IEC

60811 (-15°C): No cracks; Insulation Resistance Constant - IEC 60502 (20°C): 2500 Mohm·km; Insulation Resistance Constant - IEC

60502 (90°C): 200 Mohm·km; Temperature Index (Burning) - NES 715 300 °C; Water Absorption - IEC 60811 (100°C): < 4.00

mg/cm² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-GFR350-Polyolefin.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in³	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour @Thickness 3.00 mm, Temperature 50.0 °C	>= 1000 hour @Thickness 0.118 in, Temperature 122 °F	Condition A, Compression Molded, 10% Igepal; ASTM D1693
Melt Flow	3.5 g/10 min @Load 21.6 kg, Temperature 190 °C	3.5 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	38	38	ISO 868
Tensile Strength at Break	12.3 MPa	1780 psi	ASTM D638
Elongation at Break	210 %	210 %	ASTM D638

Thermal Properties	Metric	English	Comments
Oxygen Index	38 %	38 %	ASTM D2863

Electrical Properties	Metric	English	Comments
	5.40e+13 ohm-cm	5.40e+13 ohm-cm	

Volume Resistivity Electrical Properties	Metric @Temperature 90.0 Â°C	English @Temperature 194 Â°F	ASTM D257 Comments
	6.70e+14 ohm-cm	6.70e+14 ohm-cm	ASTM D257
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	

Processing Properties	Metric	English	Comments
Zone 1	120 - 140 Â°C	248 - 284 Â°F	
Zone 2	130 - 150 Â°C	266 - 302 Â°F	
Zone 3	140 - 160 Â°C	284 - 320 Â°F	
Zone 4	150 - 170 Â°C	302 - 338 Â°F	
Die Cooling Temperature	180 - 210 Â°C	356 - 410 Â°F	

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

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