

Solvay Specialty Polymers Cogegum® GFR/380 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; Fuel Resistant; Halogen Free; Low Smoke Emission; Low Toxicity; Oil Resistant; Self Extinguishing Uses:

Cable Jacketing; Wire & Cable Applications Additional Properties: Bending Test - IEC 60811 (-40°C): No cracks; Calorific Potential - ISO 1716 15.5 MJ/kg; Collar Temperature - 140 to 150 °C; Corrosive Gas in Smoke - IEC 60754-2 < 10.0 µS/mm; Corrosive Gas in Smoke - IEC 60754-2 > 4.30; Halogenidric Acid Emissions - GE < 0.10 %; Head Temperature - 150 to 160 °C; Hot Pressure Test - IEC 60811 (125°C): < 50 %; Hot Set - IEC 60811 60 %; Hot Set - IEC 60811 0.0 %; Temperature Index (Burning) - NES 715 300 °C; Water Absorption - IEC 60811 (70°C): 3.79 mg/cm²; Water Absorption - IEC 60811 (100°C): 3.33 mg/cm² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-GFR380-Polyolefin.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 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	8.0 g/10 min @Load 21.6 kg, Temperature 190 °C	8.0 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	11.0 MPa	1600 psi	ASTM D638
Elongation at Break	180 %	180 %	ASTM D638

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

Processing Properties	Metric	English	Comments
Zone 1	100 - 120 °C	212 - 248 °F	
Zone 2	110 - 130 °C	230 - 266 °F	
Zone 3	130 - 150 °C	266 - 302 °F	

Processing Properties	Metric	English	Comments
Zone 4	140 - 150 Â°C	284 - 302 Â°F	
Die Cooling Temperature	150 - 170 Â°C	302 - 338 Â°F	

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

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