

Solvay Specialty Polymers Cogegum[®] XLPO-HFFR GFR/360 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; Fuel Resistant; Halogen Free; Low Smoke Emission; Low Toxicity; Oil Resistant; Self Extinguishing Uses: Cable Jacketing; Low Voltage Insulation; Wire & Cable Applications Additional Properties: Bending Test - IEC 60811 (-40[°]C): No cracks; Calorific Potential - ISO 1716 18.5 MJ/kg; Collar Temperature - 150 to 170 [°]C; Corrosive Gas in Smoke - IEC 60754-2 < 10.0 μ S/mm; Corrosive Gas in Smoke - IEC 60754-2 > 4.30; Halogenidric Acid Emissions - IEC 60754-1 < 0.10 %; Head Temperature - 150 to 170 [°]C; Hot Pressure Test - IEC 60811 (100[°]C): < 50 %; Hot Set - IEC 60811 70 %; Hot Set - IEC 60811 0.0 %; Insulation Resistance Constant - IEC 60502 (20[°]C): 4000 Mohm[·]km; Insulation Resistance Constant - IEC 60502 (90[°]C): 500 Mohm[·]km; Temperature Index (Burning) - NES 715 290 [°]C; Water Absorption - IEC 60811 (70[°]C): 0.210 mg/cm²; Water Absorption - IEC 60811 (100[°]C): 0.530 mg/cm² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-GFR360-Polyolefin.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	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	6.5 g/10 min @Load 21.6 kg, Temperature 190 [°] C	6.5 g/10 min @Load 47.6 lb, Temperature 374 [°] F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	49	49	ISO 868
Tensile Strength at Break	12.5 MPa	1810 psi	ASTM D638
Elongation at Break	170 %	170 %	ASTM D638

Thermal Properties	Metric	English	Comments
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
	1.40e+14 ohm-cm	1.40e+14 ohm-cm	

Volume Resistivity Electrical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	ASTM D257 Comments
	1.10e+15 ohm-cm	1.10e+15 ohm-cm	ASTM D257
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Processing Properties	Metric	English	Comments
Zone 1	130 - 150 °C	266 - 302 °F	
Zone 2	140 - 160 °C	284 - 320 °F	
Zone 3	140 - 170 °C	284 - 338 °F	
Zone 4	140 - 170 °C	284 - 338 °F	
Die Cooling Temperature	160 - 200 °C	320 - 392 °F	

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

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