

## Solvay Specialty Polymers Cogegum<sup>®</sup> XLPO-HFFR GFR/340 Polyolefin

Category : Polymer , Thermoplastic , Polyolefin

### Material Notes:

Cogegum<sup>®</sup> XLPO-HFFR - Crosslinkable Halogen Free Fire Retardant compound. Silane grafted compound moisture curable by addition of a catalyst masterbatch (Sioplas<sup>®</sup> 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 (-40<sup>°</sup>C): Pass; Calorific Potential - ISO 1716 20.3 MJ/kg; Collar Temperature - 160 to 180 <sup>°</sup>C; Corrosive Gas in Smoke - IEC 60754-2 < 10.0  $\mu$ S/mm; Corrosive Gas in Smoke - IEC 60754-2 > 4.30; Halogenidric Acid Emissions - IEC 60754-1 < 0.10 %; Head Temperature - 160 to 180 <sup>°</sup>C; Hot Air Shrinkage - IEC 60811 (100<sup>°</sup>C): < 4.0 %; Hot Pressure Test - IEC 60811 (125<sup>°</sup>C): < 50 %; Hot Set - IEC 60811 60 %; Hot Set - IEC 60811 0.0 %; Impact Test - IEC 60811 (-40<sup>°</sup>C): Pass; Insulation Resistance Constant - IEC 60502 (20<sup>°</sup>C): 3000 Mohm $\cdot$ km; Insulation Resistance Constant - IEC 60502 (90<sup>°</sup>C): 2000 Mohm $\cdot$ km; Temperature Index (Burning) - NES 715 300 <sup>°</sup>C; Water Absorption - IEC 60811 (100<sup>°</sup>C): < 4.00 mg/cm<sup>2</sup> Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Cogegum-GFR340-Polyolefin.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-GFR340-Polyolefin.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour @Thickness 3.00 mm, Temperature 50.0 <sup>°</sup> C	>= 1000 hour @Thickness 0.118 in, Temperature 122 <sup>°</sup> F	Condition A, Compression Molded, 10% Igepal; ASTM D1693
Melt Flow	7.0 g/10 min @Load 21.6 kg, Temperature 190 <sup>°</sup> C	7.0 g/10 min @Load 47.6 lb, Temperature 374 <sup>°</sup> F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	36	36	ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	ASTM D638
Elongation at Break	290 %	290 %	ASTM D638

Thermal Properties	Metric	English	Comments
Oxygen Index	31 %	31 %	ASTM D2863

Electrical Properties	Metric	English	Comments
	5.40e+14 ohm-cm	5.40e+14 ohm-cm	

Volume Resistivity Electrical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	ASTM D257 Comments
	8.20e+14 ohm-cm	8.20e+14 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 - 160 °C	284 - 320 °F	
Zone 4	150 - 170 °C	302 - 338 °F	
Die Cooling Temperature	170 - 220 °C	338 - 428 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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