Solvay Specialty Polymers Cogegum® GFR/365 Polyolefin, Unspecified (Unverified Data**)

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. Standard Complying - EN50363-0 M2,M4; EN50363-5 EI8; EN50363-6 EM8, EM10; EN50264 EI101..EI109, EM101..EM104; IEC60092/351 HF90; IEC60092 SHF2; Cenelec HD624.6; VDE 0266 HXI1,HXM1; VDE 0250 HI3; VDE 0207 HJ1,HM1,HM3; BS 7655 LRS1, SW3.Additional Information: Tests reported are performed on pressed or extruded specimens, added with 5% of Catalyst CT/2-HP and crosslinked in hot water at 95°C for 6 hours Coloring - EVA or PE based color masterbatches added at 1.2-1.5% by weight; in order to prevent precrosslinking during processing, predrying of color masterbatch is suggested (4-6 hours at 50-60°C) Storage -The product must be stored under the following conditions: -- closed and undamaged bags -- ambient temperature not exceeding 30°C -avoid direct exposure to sunlight and weathering - Product alterations could occur due to extended period of storage - Shelf life: 9 months -Solvay Specialty Polymers accepts no liability of any kind in case the above mentioned conditions are not fulfilled.Extrusion Notes: Processing - COGEGUM® GFR/365 pregrafted base must be added with Catalyst CT/2-HP masterbatch to promote curing. Catalyst dosage is 5% by weight and blending must be done just before using (2-3 hours max.), preferably in the extruder hopper. Catalyst doesn't need any predrying if stored in dry conditions in the original closed bags; in case, predrying can be made at 50-60°C for 4-8 hours - The pregrafted base compound is sensible to moisture; open bags must be used within 4 hours. Pregrafted base cannot be predried Extrusion equipment standard extruders for thermoplastics equipped with low compression screw (1:1.2-1.4 compression ratio and 25 L/D ratio are suggested), and an adequate barrel thermoregulation - don't use screw thermoregulation - filter net: none - compression tools suggested Curing - by immersion in hot water at 60-70°C - by exposure in ambient, crosslinking time depends on ambient temperature and relative humidity - in all cases curing time depends on insulation thickness; for 0.7-1.2 mm wall thickness 3-6 hours are generally necessary in case of forced curing in hot waterInformation provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Cogegum-GFR365-Polyolefin-Unspecified-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
	>= 1000 hour	>= 1000 hour	Condition & Compression Moldad
ESCR 10% Igepal®	@Thickness 3.00 mm, Temperature 50.0 °C	@Thickness 0.118 in, Temperature 122 °F	Condition A, Compression Molded; ASTM D1693
	6.5 g/10 min	6.5 g/10 min	without Catalyst MB addition;
Melt Flow	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	Internal Method

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ISO 868

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Mechanical Properties ak	MetriciPa	Englishi	Comments
Elongation at Break	180 %	180 %	IEC 60811
Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	300 °C	572 °F	Temperature Index (Burning); NES 715

Maximum Service Temperature, An	000 0	012 1	715
Oxygen Index	38 %	38 %	ASTM D2863

Electrical Properties	Metric	English	Comments	
Volume Resistivity	5.50e+13 ohm-cm	5.50e+13 ohm-cm	IEC 60502	
Volume resistivity	@Temperature 90.0 °C	@Temperature 194 °F	160 00302	
	9.50e+14 ohm-cm	9.50e+14 ohm-cm		
	@Temperature 20.0 °C	@Temperature 68.0 °F	IEC 60502	
Inculation Desistivity	200 Megaohm/1000 m	656 Megaohm/1000 ft	150 60500	
Insulation Resistivity	@Temperature 90.0 °C	@Temperature 194 °F	IEC 60502	
	3500 Megaohm/1000 m	11500 Megaohm/1000 ft	IEC 60502	
	@Temperature 20.0 °C	@Temperature 68.0 °F		

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 170 °C	302 - 338 °F	Collar Temperature
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	140 - 170 °C	284 - 338 °F	
Die Temperature	160 - 200 °C	320 - 392 °F	
Head Temperature	150 - 170 °C	302 - 338 °F	

Descriptive Properties	Value	Comments
1N NaOH Solution Immersion Test, 23°C, 168 hr	-2% Change in Tensile Elongation	IEC 60811
	2% Change in Tensile Strength	IEC 60811
	-3% Change in Tensile	



1N Oxolic Acid Immersion Test, 23°C, 168 hr Descriptive Properties	Flongation Value	Comments
	-6% Change in Tensile Strength	IEC 60811
Availability	Asia Pacific	
	Europe	
	North America	
Bending Test	No cracks	-40°C; IEC 60811
Calorific Potential	18.3 MJ/kg	ISO 1716; Upper (gross)
Corrosive Gas in Smoke	< 10.0 µS/mm	Conductivity IEC 60754-2
	pH > 4.30	
Features	Crosslinkable	
	Flame Retardant	
	Fuel Resistant	
	Halogen Free	
	Low Smoke Emission	
	Low Toxicity	
	Oil Resistant	
	Self Extinguishing	
Generic	Polyolefin, Unspecified	
Halogenidric Acid Emissions	< 0.10%	
Hot Pressure Test	< 50%	100°C; max penetration, K=1; IEC 60811
Hot Set (%)	0	250°C, Permanent elongation after cooling; 20 N/cm²
	60	250°C, Elongation under load; 20 N/cm ²
IRM 902 Oil Immersion Test, 100°C, 168 hr	-26	IEC 60811, %Change in Tensile Elongation
	-28	IEC 60811, %Change in Tensile Strength
IRM 903 Oil Immersion Test, 70°C, 168 hr	-17	IEC 60811, %Change in Tensile Strength
	-25	IEC 60811, %Change in Tensile Elongation
Mechanical Properties After Aging in Air Bomb, 0.55 MPa, 127°C, 40 hr	20	IEC 60811, %Change in Tensile Strength

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Descriptive Properties	Value	Comments %Change in Tensile Elongation
Mechanical Properties After Aging in Air Oven, 135°C, 168 hr	-17	IEC 60811, %Change in Tensile Elongation
	21	IEC 60811, %Change in Tensile Strength
RoHS Compliance	RoHS Compliant	
Uses	Cable Jacketing	
	Low Voltage Insulation	
	Wire & Cable Applications	
Water Absorption (mg/cm²)	< 1.50	100°C; 24 hr; IEC 60811

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com Email : sales@lookpolymers.com Tel : +86 021-51131842 Mobile : +86 13061808058 Skype : lookpolymers Address : United North Road 215,Fengxian District, Shanghai City,China