Cogegum® GFR/350

Polyolefin

Solvay Specialty Polymers

Message:

Cogegum®XLPO-HFFR-crosslinkable halogen-free flame retardant composite silane graft compound by adding catalyst masterbatch (SIOPLAS®Method) for moisture curing. Including polyolefin matrix containing flame retardant system, so that the cable has a self-extinguishing function, does not release halogen acid, does not release toxic and corrosive gases and black smoke. This material meets the requirements of RoHS Directive.
meets the following standards:-EN 50363-5 EI5, EI8;EN 50363-0 G10;EN 50363-6 EM10; VDE 0207/23 HJ1,HM1; VDE 0250/503 HI3; VDE 0266 HXI1, HXM1;IEC 60092/351 HF 90; Cenelec HD 624.6

General Information	
Features	Low smoke Low toxicity Crosslinkable Halogen-free Self-extinguishing Flame retardancy
Uses	Low voltage insulation Cable sheath Wire and cable applications
RoHS Compliance	RoHS compliance

Physical	Nominal Value	Unit	Test Method
Specific Gravity [1]	1.40	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [2] (190°C/21.6 kg)	3.5	g/10 min	Internal method
Water absorption rate-24 hours(100°C)		mg/cm²	IEC 60811
Impact test (-15°C)	No cracking		IEC 60811
Thermoset [3]			IEC 60811
250°C, maximum permanent elongation after cooling	0.0	%	IEC 60811
250°C, load elongation at break	50	%	IEC 60811
Hot air shrinkage-1 hour(100°C)		%	IEC 60811
Hot pressing test-Maximum permeability, K = 1(100°C)		%	IEC 60811
Bending test (-15°C)	No cracking		IEC 60811
Insulation resistance constant			IEC 60502
20°C	2500	Mohms·km	IEC 60502
90°C	200	Mohms·km	IEC 60502
Halogen-containing acid emission		%	IEC 60754-1
Latent heat energy-High (Total)	18.6	MJ/kg	ISO 1716

Temperature Index (Combustion)	300	°C	NES 715
Corrosive gases in flue gas			IEC 60754-2
pH	> 4.30		IEC 60754-2
Conductivity		µS/mm	IEC 60754-2
Ring temperature	160 - 180	°C	
Head Temperature	160 - 180	°C	
Environmental Stress-Cracking Resistance (condition a, 50°C, 3.00mm, 10% Igepal, molding)	> 1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	38		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	12.3	MPa	IEC 60811
Tensile Elongation (Break)	210	%	IEC 60811
Aging	**Nominal Value**	**Unit**	**Test Method**
0.5MPa, change of mechanical properties after air bomb aging test, 127°C, 40 hr			IEC 60811
Tensile strength change	18	%	IEC 60811
Change in tensile elongation	-15	%	IEC 60811
Changes in mechanical properties after hot air aging test, 135°C, 168 hr			IEC 60811
Tensile strength change	10	%	IEC 60811
Change in tensile elongation	-5	%	IEC 60811
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity			IEC 60502
20°C	6.7E+14	ohms·cm	IEC 60502
90°C	5.4E+13	ohms·cm	IEC 60502
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	38	%	ASTM D2863

Additional Information

测试报告采用挤压或挤出样本获得,添加了5% 的 CATALYST CT/2-LR,在95°C热水中交联6小时.着色-EVA或 PE类母粒按重量添加 1.2-1.5 %;为防止加工过程中发生早交联,建议预烘干色母粒(50-60°C下4-6小时).存储
产品必须按下列条件存储:
--密封,包装袋完好
环境温度不超过30°C
--避免在阳光下曝晒,或露天放置
存放时间过长会造成产品形状改变.
保质期: 9个月
如果没有满足上述条件,苏威特种聚合物不承担任何责任.
包装:
采用防潮袋包装. 每袋25 kg,每只货板堆放1375kg.
每只纸箱750 kg

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	120 - 140	°C
Cylinder Zone 2 Temp.	130 - 150	°C
Cylinder Zone 3 Temp.	140 - 160	°C
Cylinder Zone 4 Temp.	150 - 170	°C

Die Temperature	180 - 210	°C

Extrusion instructions

加工: - -COGEGUM® GFR/350 必须加用 CT/2-LR 母粒促进固化.催化剂用量为混合物重量的5%,应在挤塑加工前不超过2-3小时之内进行配混.
最好用挤出机料斗混合.如果需要耐强UV-VIS 辐射,长期抗老化,建议添加5%的CT/7-LR
UV催化剂.用原始包装密封存储于干燥环境的催化剂不需要任何预干燥.如需预干燥,可以在50-60°C温度下干燥4-8小时.
-预接枝基体树脂混和物容易受潮,开袋后需在4小时内使用.预接枝基体树脂不可以预先干燥. 挤塑设备:
—热塑性塑料标准挤出机,低压缩比(建议压缩比:1:1.2-1.4,L/D:25,恰当调节机筒温度,螺杆较长,需减少催化剂用量.
无需调节螺杆温度
-滤网:无
建议采用压缩装置 固化: -浸入60-70°C温水中 -暴露于环境中,交联时间取决于环境温度和相对湿度
-不管在什么情况下,固化时间都取决于保温厚度,如在温水中强行固化,壁厚 0.7-1.2 mm ,一般需要3~6 小时.

NOTE

1.	23°C
2.	The test was performed without adding catalyst MB
3.	20 N/cm^2

Recommended distributors for this material

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