Hax™ HFX 509/1

Polyolefin

Fainplast Compounds S.r.l

Message:

GRAFTED HALOGEN FREE, FLAME RETARDANT AND LOW SMOKE EMISSION COMPOUND, CURABLE BY EXPOSURE TO MOISTURE FOR SOLAR CABLE INSULATION
This product is a LSFOH silane grafted compound for cable insulation, Cross-linkable by heat and moisture by previous addition of a suitable catalyst masterbatch (SIOPLAS method). It is highly recommended to store separately the grafted compound and the catalyst, as prescorching may take place during the reactive extrusion.
The properties of this compound meet the requirements of EN 50363-0 type G9 & G10,CEI 20-91type G21.

General Information	
Additive	Flame Retardant
Features	Crosslinkable Flame Retardant Halogen Free Low Smoke Emission
Uses	Insulation Solar Panels Wire & Cable Applications
Wire Types	G10 G9
Agency Ratings	CEI 20-91 G21 EN 50363-0
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	5.0	g/10 min	ISO 1133
Water Absorption - 24 hrs (100°C) [1]	1.50	mg/cm²	IEC 60811
Hot Set [2]			IEC 60811
Elongation under load : 200°C	20	%	
Elongation under load : 250°C	30	%	
Permanent elongation after cooling : 200°C	0.0	%	
Permanent elongation after cooling : 250°C	5.0	%	
Gas Evolved Acidity - HCl & HBr	< 0.50	%	EN 50267-2-1
Head Temperature	160	°C	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	48		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
Break [3]	12.5	MPa	IEC 60811
Break	11.5	MPa	ISO 527-2
Tensile Strain			
Break [4]	250	%	IEC 60811
Break	290	%	ISO 527-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity			ASTM D257
20°C [5]	2.0E+15	ohms·cm	
20°C	5.0E+15	ohms·cm	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	30	%	ISO 4589-2
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	130	°C	
Cylinder Zone 2 Temp.	140	°C	
Cylinder Zone 3 Temp.	145	°C	
Cylinder Zone 4 Temp.	155	°C	
Adapter Temperature	155	°C	
Die Temperature	165	°C	
NOTE			
1.	After Crosslinking		
2.	15mins, 0.2 N/mm^2, After Crosslinking		
3.	After Crosslinking		
4.	After Crosslinking		
5.	After Crosslinking		

Recommended distributors for this material

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