

Hax™ HFX 515

Polyolefin
Fainplast Compounds S.r.l

Message:

GRAFTED HALOGEN FREE, FLAME RETARDANT AND LOW SMOKE EMISSION COMPOUND, CURABLE BY EXPOSURE TO MOISTURE FOR CABLE INSULATION AND SHEATING

This product is a LSFOH silane grafted compound for cable insulation and sheating, 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 VDE 0266 type HXI1 & HXM1, EN 50363-0 type G9-G10 & M2, VDE 0207 part 23 type HJ1, BS 50363-5:2005 type EI5, CEI 20-91 type G21-M21, TUV2pfg1169-082007solar insulation and sheath

General Information			
Additive	Flame Retardant		
Features	Crosslinkable		
	Flame Retardant		
	Halogen Free		
	Low Smoke Emission		
Uses	Insulation		
	Wire & Cable Applications		
Wire Types	EI5		
	G10		
	G9		
	HJ1		
	HXI1		
	M2		
Agency Ratings	CEI 20-91 G21		
	CEI 20-91 M21		
	EN 50363-0 G9 & G10		
	EN 50363-5		
	VDE 0207/23		
	VDE 0266		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	4.5	g/10 min	ISO 1133
Molding Shrinkage ¹ (100°C, 1 hr)	< 2.0	%	IEC 60811

Water Absorption - 24 hrs (100°C) ²	< 5.00	mg/cm ²	IEC 60811
pH	> 4.3		EN 50267-2-2
Hot Set ³			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	%	
Conductivity	< 10.0	μS/mm	EN 50267-2-2
Gas Evolved Acidity			
HCl & HBr	< 0.50	%	EN 50267-2-1
HF	< 0.10	%	EN 60684-2
Knife Penetration (100°C) ⁴	< 50	%	IEC 60811
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Break ⁵	13.0	MPa	
Break	11.5	MPa	
Tensile Strain			ISO 527-2
Break ⁶	250	%	
Break	280	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
20°C ⁷	5.0E+15	ohms · cm	
20°C	1.0E+16	ohms · cm	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	33	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	120 to 140	°C	
Cylinder Zone 2 Temp.	120 to 140	°C	
Cylinder Zone 3 Temp.	130 to 150	°C	
Cylinder Zone 4 Temp.	130 to 150	°C	
Cylinder Zone 5 Temp.	130 to 150	°C	
Adapter Temperature	130 to 150	°C	
Die Temperature	150 to 180	°C	
NOTE			
1.	After Crosslinking		
2.	After Crosslinking		
3.	15mins, 0.2 N/mm ² , After Crosslinking		
4.	k = 1.0, After Crosslinking		

5.	After Crosslinking
6.	After Crosslinking
7.	After Crosslinking

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