

Fainplast Compounds HAX HFX 024-15C Halogen Free PVC

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Wire and Cable Grade

Material Notes:

This product is a LSFOH silane grafted compound for cable insulation and sheathing, cross-linkable by heat and moisture by previous addition of a suitable catalyst masterbatch. It is recommended to store separately the grafted compound and the catalyst, as prescoring may take place during the reactive extrusion.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fainplast-Compounds-HAX-HFX-024-15C-Halogen-Free-PVC.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	IEC 60811
Melt Index of Compound	2.0 g/10 min	2.0 g/10 min	
	@Load 21.6 kg, Temperature 150 °C	@Load 47.6 lb, Temperature 302 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	at 15"; IEC 60811
Tensile Strength at Break	13.0 MPa	1890 psi	IEC 60811
	14.0 MPa	2030 psi	IEC 60811
Elongation at Break	200 %	200 %	IEC 60811
	220 %	220 %	after crosslinking process; IEC 60811
	0.00 %	0.00 %	permanent elongation after cooling; IEC 60811
	@Temperature 200 °C, Time 900 sec	@Temperature 392 °F, Time 0.250 hour	
	5.0 %	5.0 %	permanent elongation after cooling; IEC 60811
	@Temperature 250 °C, Time 900 sec	@Temperature 482 °F, Time 0.250 hour	
	20 %	20 %	elongation under load; IEC 60811
	@Temperature 200 °C, Time 900 sec	@Temperature 392 °F, Time 0.250 hour	
	30 %	30 %	elongation under load; IEC 60811
	@Temperature 250 °C, Time 900 sec	@Temperature 482 °F, Time 0.250 hour	

Thermal Properties	Metric	English	Comments
Oxygen Index			ISO 4589

Thermal Properties	^{32 %} Metric	^{32 %} English	Comments
Shrinkage	<= 2.0 % @Temperature 100 °C, Time 3600 sec	<= 2.0 % @Temperature 212 °F, Time 1.00 hour	after crosslinking; IEC 60811

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm @Temperature 20.0 °C	1.00e+14 ohm-cm @Temperature 68.0 °F	ASTM D257 Electrodes

Processing Properties	Metric	English	Comments
Zone 1	120 - 140 °C	248 - 284 °F	
Zone 2	120 - 140 °C	248 - 284 °F	
Zone 3	130 - 150 °C	266 - 302 °F	
Zone 4	130 - 150 °C	266 - 302 °F	
Die Temperature	150 - 180 °C	302 - 356 °F	
Head Temperature	130 - 150 °C	266 - 302 °F	

Descriptive Properties	Value	Comments
Collar Temperature (°C)	150	
Emission of Halogenidric acids (%)	0.1	
Knife penetration test (%)	50	@ 100°C, k=1
Water Absorption (mg/cm^2)	1.5	

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