

HFXLI Halogen-free,cross-linked insulating compound

Description

HFXLI is a Silane Crosslinkable Halogen-Free, Flame-Retardent, Low Smoke insulating compound for insulating LV power, control and instrument cables operating at 90°C.

The Catalyst is normally added at 5% by gravimetric dosing.

Applications

HFXLI is best used in cables requiring special fire performance and safety requirements such as cables to EN 50525 part 3 series, BS 7211 type H07Z, BS 8573, EN 60332, BS 7629/BS 6387 CWZ, BS 8436 and many other specifications for safety and fire performances.

The standard material can be delivered in Oil-Resistant or/and Sunlight-Resistant characteristics to UL 1581.

Temperature rating: 90°C

Specifications

HFXLI meets the requirements of type EI5 to EN 50363, IEC 60502 table 23, IEC 60092-351 type HF90.

Main properties

Characteristic	Unit	Value	Test method
Density	kg/dm3	1.46	ISO 1183 A
Tensile Strength	MPa	min 14.4	IEC 60811-1-1
Elongation at break	%	min 165	IEC 60811-1-1
<u>Aging conditions</u>	135°C X 7d		
Tensile Strength after aging	% variation	<30	IEC 60811-1-2
Elongation at break	% variation	<30	IEC 60811-1-2
Elongation at break	% value	min 160	IEC 60811-1-2
<u>Hot set test conditions</u>	200°C,15',20N/cm2		
Elongation under load		<100	IEC 60811-2-1
Elongation after unloading		<25	IEC 60811-2-1
Limited Oxygen Index	%	>28	ISO 4589-2
<u>Halogen Content</u>			
pH		>6	IEC 60754-2
Conductivity	µS/cm	<8	IEC 60754-2
Insulation resistance Constant Ki at 20°C	MΩ.km	>1000	
Insulation resistance Constant Ki at 90°C	MΩ.km	>1.0	

the above data should be regarded as a general guide and should not be used as specification.

Packing & Storage

Store in cool and dry area and use the compound within 6 months from shipping date.

The material is delivered in 25 kg bags or in 700-1000 kg octabins with moisture resistant liners

Processing

Modern extruders will process HFXLI with good output best using L/D>20 and low compression screw.

Temperature profile : feed 130°C, zone 1-5: 140-160°C, die: max 170°C.



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