

Silane Cross-linkable HFFR Sheathing Compound for Shipboard Cables

Description

DYM-8610NFR is a thermosetting, halogen free low smoke flame retardant sheathing compound for shipboard and offshore cables.

Specification

IEC 60092-359 type SHF2

Typical Physical · Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	1.39
Tensile strength at break	IEC 60811-1-1	MPa	12.5
Elongation at break		%	200
Tensile strength after 168hrs at 120°C	IEC 60811-1-2		
Retention		%	>95
Elongation at break after 168hrs at 120°C			
Retention		%	>85
Hot set test (200°C, 15min, 20N/cm ²)	IEC 60811-2-1		
Elongation under load		%	50
Permanent elongation		%	10
Oil resistance (ASTM #2 Oil, 100°C, 24 hrs)	IEC 60811-2-1		
Tensile Strength (Retention)		%	>75
Elongation (Retention)		%	>90
Oxygen index	ASTM D 2863	%	33
Smoke density (Flaming mode)	ASTM E 662	Ds max	90
Halogen acid gas evolution	IEC 60754-1	%	0
Corrosivity of gases pH	IEC 60754-2	-	5.1
Conductivity		μS/cm	55

* Curing condition : 80°C, 4hrs in water

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of DYM-8610NFR are as followings ; Unit: 'C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
155	160	165	170	175	180	180	180

It is recommended that this product can be used conventional HFFR extruder. (L/D is 24~20:1 and C/R is 1.5~2.0:1)
Specific recommendation for processing conditions can be determined only when the application and type of equipment are known.

Color & Appearance

This compound is a basic natural color, but colorable, and is supplied in pellet form.

Packing

- The base compound, 25kg bag (Inner Al bag packing)
- The Catalyst masterbatch compound, 750g bag (Al bag packing)
 - > The Catalyst masterbatch compound is added to the base compound by dry blending at a ratio of 3% to 100% the base compound

Handling

To ensure health and safety, Material Safety Data Sheets(MSDS) is available on request.

Storage

Should be stored at room temperatures between 10~30°C. Recommended maximum storage period in dry and clean place is 6 months unopened and in original packaging after the manufacture.



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