

Silane Cross-linkable LSOH(HFFR) Sheathing Compound for Wire & Cables

Description

DYM-8611NFR is a Silane Cross-linkable LSOH(HFFR) Sheathing compound for wire and cables. This compound is suitable for use in wire & cable and shipboard Sheathing cable.

Specification

IEC 60092-359 type SHF1, IEC 60502

Typical Physical · Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	-
Tensile strength at break	IEC 60811-1-1	Shore A	MPa
Elongation at break			%
Tensile strength after 168hrs at 120°C	IEC 60811-1-2	%	+10%
Retention		%	-20%
Elongation at break after 168hrs at 120°C			
Retention			
Hot set (200°C, 15min, 20N/cm ²)	IEC 60811-2-1	%	>100
Elongation under load		%	>10
Permanent elongation			
Oxygen index	ASTM D 2863	%	35
Smoke Density (Flaming mode)	ASTM E 662	Ds max	100
Halogen acid gas evolution	IEC 60754-1	%	0.1
Corrosivity of gases. PH	IEC 60754-2	-	5.1
Conductivity		μS/mm	5
Volume resistivity	ASTM D 257	Ω · cm	8×10 ¹⁵
Hardness	ASTM D 2240	Shore A	95

* Curing condition : 85°C, 4hrs in water

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of DYM-8611NFR are as followings ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
180+20	190+20	195+20	200+20	210+20	200+20	210+20	210+20

It is recommended that this product can be used conventional PE/PVC extruder. (L/D is 25~20:1 and C/R is 1.5~3.0:1) Specific recommendation for processing conditions can be determined only when the application and type of equipment are known.

Use of Compound

This compound use mixing Pre-Compound 25kg and catalyst 800g. (Mixing ratio = 97 : 3)

Color & Appearance

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

Packing

Pre-Compound : 25kg bag packing (Inner Al bag packing).

Catalyst : 800g PE bag packing.

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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