

DYM-7611NFR

Wire & Cable Compound

Silane Cross-linkable LSHF Insulation Compound for Wire & Cables

Description

DYM-7611NFR is a Silane cross-linkable LSHF insulation compound for wire and cables. This compound is suitable for use in wire & cable and shipboard insulation cable.

Specification

IEC 60092-351 type HF XLPE

UL 10368 HF 105°C Grade

T3 125°C Grade

BS 7655 : 5.1 types EI5

KS C 3341 type HFIX

Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	1.30
Tensile strength at break	IEC 60811-501	MPa	16
Elongation at break		%	200
Tensile strength after 7days at 135°C	IEC 60811-401		
Variation		%	+ 10
Elongation at break after 7days at 135°C			
Variation		%	- 15
Hot set (200°C, 15min, 20N/cm ²)	IEC 60811-507		
Elongation under load		%	80
Permanent elongation		%	5
Cold impact test (-15°C)	IEC 60811-506	-	Pass
Oxygen index	ASTM D 2863	%	30
Smoke density (Flaming mode)	ASTM E 662	Ds max	90
Halogen acid gas evolution	IEC 60754-1	%	0
Corrosivity of gases	IEC 60754-2		
pH		-	5.2
Conductivity		μS/mm	5.0
Volume resistivity	ASTM D 257	Ω·cm	1.5×10 ¹⁵
Hardness	ASTM D 2240	Shore D	52

* Curing condition : 80°C, 4hrs in water * Data should not be used for specification work.

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Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-7611NFR** are as followings ;

							Unit: °C
Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
170±5	180±5	185±5	190±5	200±5	200±5	210±5	210±5

It is recommended that this product can be used conventional PE/PVC extruder. (L/D is 24:1 and C/R is 2.5~3.0:1) Also PVC Screws can be used, but with a possible decrease of the maximum output of the extruder.(decrease of the mpm) 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(White), but colorable, and is supplied in pellet form.

A wide range of color masterbatches is available; it is suggested an addition of 1.5%(approx.) by weight.

Packing and Use method

Form : **24.25kg(Pre-Compound) bag** packing (Inner Al bag packing) :**97%** +
Catalyst MB **750g(1bag)** : **3%** → transfer by hopper after mixing.

Handling

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

Storage

Should be stored at room temperatures between 10~50°C. Recommended maximum storage period in dry and clean place is 6 months unopened and in original packaging after the manufacture.

Disclaimer

The product can be used only for the application as specified here above. It is the customer responsibility to inspect and test our products to satisfy the suitability of this product to customer's particular purpose. No liability can be accepted regarding the use of our products in conjunction with other materials. No warranties shall be offered which extend beyond the description contained here above. The above-mentioned information relates exclusively to our products when not used in conjunction with any third party materials.