

DYM-7610NFR

Wire & Cable Compound

Silane Cross-linkable Insulation Compound for Shipboard Cables

Description

DYM-7610NFR is a silane cross-linkable insulation compound for shipboard cables based on EPDM. This compound provides good processing, mechanical properties and long term reliability.

Specification

JIS C 3410

IEC 60092-351

Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	1.28
Tensile strength at break	IEC 60811-501	N/mm ²	10.5
Elongation at break		%	330
Tensile strength after 7days at 135°C	IEC 60811-401		
Retention		%	>95
Elongation at break after 7days at 135°C			
Retention		%	>85
Hot Set (200°C, 15min, 20N/cm ²)	IEC 60811-507		
Elongation under load		%	50
Permanent elongation		%	10
Ageing in air bomb (0.55MPa 127°C, 40hrs)	IEC 60811-412		
Tensile Strength (Retained)		%	>85
Elongation at break (Retained)		%	>80
Ozone Resistance 30hrs(0.025~0.03%)	IEC 60811-403	-	No Crack
Volume resistivity	ASTM D 257	Ω·cm	8.0×10 ¹⁵
Hardness	ASTM D 2240	Shore A	85

* Data should not be used for specification work.

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Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-7610NFR** are as follows ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
180±5	185±5	190±5	200±5	205±5	210±5	210±5	210±5

It is recommended that this product can be used conventional PE/PVC extruder. (L/D is 28~20:1 and C/R is 2.5~3.5:1) Specific recommendation for processing conditions can be determined only when the application and type of equipment are known. We recommend hopper drying at 60°C for 4 hours to remove moisture before extrusion.

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 10~30°C. Recommended maximum storage period in dry and clean place is 6months 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.



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