

Silane Cross-linkable Insulation Compound for Shipboard Cables

Description

DYM-7610NFR is a silane cross-linkable insulation compound for shipboard cables based on EPDM.

Specification

JIS C 3410(1999)

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	ASTM D 638	MPa	10.5
Elongation at break	ASTM D 638	%	330
T.S after ageing (Retained)	ASTM D 638	%	>95
Elongation after ageing (Retained) (After 168hrs at 135°C)	ATM D 638	%	>85
Hot Set (250°C, 15min, 20N/cm ²)	IEC 60811-2-1		
Elongation under load		%	50
Permanent elongation		%	10
Ageing in air bomb (0.55Mpa 127°C, 40hrs)	IEC 60811-1-2		
Tensile Strength (Retained)		%	>85
Elongation at break (Retained)		%	>80
Ozone Resistance 30 hrs(0.025~0.03%)	IEC 60811-2-1	-	No Crack
Hardness	ASTM D 2240	-	85
Volume Resistivity	ASTM D 257	Ω · cm	8.0 × 10 ¹⁵

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

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of DYM-7610NFR are as followings ;

Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
190	200	210	215	220	220	220	225

It is recommended that this product can be used conventional PE/PVC extruder. (L/D is 27~20:1 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.

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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