

DYM-8810NFR

Wire & Cable Compound

HFFR Sheathing Compound for Shipboard and Offshore Cables

Description

DYM-8810NFR is a thermosetting, halogen free low smoke flame retardant sheathing compound for shipboard and offshore cables.

Specification

IEC 60092-360 type SHF2

JIS C 3327

Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	1.38
Tensile strength at break	IEC 60811-501	MPa	14.5
Elongation at break		%	520
Tensile strength after 168hrs at 120°C	IEC 60811-401	MPa	
Retention		%	>90
Elongation at break after 168hrs at 120°C		%	
Retention		%	>80
Oil Resistance(IRM 902 Oil 120°C, 18hrs)	IEC 60811-404		
T·S after immersion(Retained)		%	>80
Eb after immersion(Retained)		%	>70
Hot set test (200°C, 15min, 20N/cm ²)	IEC 60811-507		
Elongation under load		%	40
Permanent elongation		%	0
Oxygen index	ASTM D 2863	%	31
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
Hardness(Shore A)	ASTM D 2240	-	80

* Data should not be used for specification work.

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Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-8810NFR** are as follows ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
85±5	90±5	92±5	95±5	100±5	105±5	110±5	110±5

It is recommended that this product can be used conventional rubber extruder. (L/D is 10~15:1 and C/R is 1.3~1.8:1) 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 black color, but colorable, and is supplied in ribbon form.

Packing

Form : 600kg Cardboard Box

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 a dry and clean place is 12months 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.



DYM SOLUTION CO., LTD.

Head Office : 50, 2gongdan 8-gil, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea, <http://www.dymcom.co.kr>
Tel : +82(0)41 621 6250, 621 8421 Fax : +82(0)41 621 8420