

# DYM-7650NFR

Wire & Cable Compound

## LSHF Insulation Compound for Wire & Cables

### Description

**DYM-7650NFR** is a thermosetting(Electric Beam), non-halogen, low smoke and flame retardant insulation compound for wire and cables. This compound provides good processing, mechanical properties and long term reliability.

### Specification

UL 10368 HF 105°C Grade

IEC 60092-351 type HF 85

BS 7655 : 5.1 types EI5

### Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	1.54
Tensile strength at break	IEC 60811-501	MPa	11
Elongation at break		%	200
Tensile strength after 7days at 135°C	IEC 60811-401		
Retention		%	>75
Elongation at break after 7days at 135°C			
Retention		%	>80
Hot Set (200°C, 15min, 20N/cm <sup>2</sup> )	IEC 60811-507		
Elongation under load		%	30
Permanent elongation		%	0
Cold impact test (-15°C)	IEC 60811-506	-	Pass
Oxygen index	ASTM D 2863	%	45
Smoke density (Flaming mode)	ASTM E 662	Ds max	30
Halogen acid gas evolution	IEC 60754-1	%	0
Corrosivity of gases	IEC 60754-2		
pH		-	5.2
Conductivity		µs/cm	18
Volume resistivity	ASTM D 257	Ω·cm	1×10 <sup>15</sup>
Hardness	ASTM D 2240	Shore D	45

\* Data should not be used for specification work.

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#### **Processing Techniques**

Recommending standard extrusion temperature profiles of **DYM-7650NFR** are as follows ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
140±5	145±5	147±5	150±5	155±5	160±5	160±5	160±5

It is recommended that this product can be used conventional PE/PVC extruder. (L/D is 20~24:1 and C/R is 2~3:1) 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 pellet form.

#### **Packaging**

Form : 600kg Cardboard Box (Inner Al 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 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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