

# DYM-8453NFR

Wire & Cable Compound

## Non-Halogen Low Smoke Flame Retardant Filling Compound

### Description

DYM-8453NFR is a thermosetting, non-halogen, low smoke and flame retardant filling compound for wire and cables, based on Polyolefin

### Specification

IEC 60502

BS 7655

### Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific gravity at 23°C	ASTM D 792	-	1.46
Tensile strength at break(50mm/min)	IEC 60811-501	MPa	8
Elongation at break		%	410
Pressure test at high temp. (75°C, 30min)	IEC 60811-508	%	5
Heat shock test (150°C, 1hr)	IEC 60811-509	-	Pass
Cold impact test (-15°C)	IEC 60811-506	-	Pass
Oxygen index	ASTM D 2863	%	40
Smoke density (Flaming mode)	ASTM E 662	DS max	130
Halogen acid gas evolution	IEC 60754-1	%	0
Corrosivity of gases	IEC 60754-2		
pH		-	5.1
Conductivity		μS/mm	4.5
Hardness (Shore A)	ASTM D 2240	-	85
Mooney Viscosity ML 1+4 at 140°C	ASTM D 1646	-	30
Volume resistivity	ASTM D 257	Ω·cm	1.5×10 <sup>14</sup>

\* Data should not be used for specification work.

### Processing Techniques

Recommending standard extrusion temperature profiles of DYM-8453NFR are as follows ;

Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
90±5	130±5	140±5	145±5	150±5	150±5	155±5	160±5

It is recommended that this product can be used conventional PE/PVC extruder.

Specific recommendation for processing conditions can be determined only when the application and type of equipment are known.

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#### ***Color & Appearance***

This compound is a basic natural color, but colorable, and is supplied in pellet form.

#### ***Packing***

Form : 700kg Cardboard Box (Inner 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 10~50°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.



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