

DYM-8501NFR

Wire & Cable Compound

LSHF Sheathing Compound for Wire and Cables

Description

DYM-8501NFR is a thermoplastic, non-halogen low smoke flame retardant sheathing compound for Wire and Cables. This compound provides good processing, mechanical properties and long term reliability as well as fire retardant.

Specification

IEC 60092-360 type SHF1 IEC 60502 BS 7655 : 6.1 types LTS1 & LTS3

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	MPa	15
Elongation at break		%	620
Tensile strength after 168hrs at 100°C	IEC 60811-401	MPa	14
Retention		%	93
Elongation at break after 168hrs at 100°C		%	600
Retention		%	97
Pressure test at high temp. (80°C, 6hrs)	IEC 60811-508	%	10
Cold impact test (-15°C, 16hrs)	IEC 60811-506	-	Pass
Bending Test(-15°C, 16hrs)	IEC 60811-504	-	Pass
Volume Resistance at 23°C	ASTM D 257	Ω·cm	5.0×10 ¹⁵
Oxygen index	ASTM D 2863	%	33
Smoke density (Flaming mode)	ASTM E 662	Ds max	100
Smoke emission	BS 7622 Part 2	%	85
Halogen acid gas evolution	IEC 60754-1	%	0
Corrosivity of gases pH	IEC 60754-2	-	4.8
Conductivity		μs/mm	3.3

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-8501NFR** are as follows ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
150±5	155±5	160±5	165±5	168±5	170±5	172±5	175±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.

LSHF Sheathing Compound for Wire and Cables

Color & Appearance

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

Packing

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 10~50°C. Recommended maximum storage period in 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