

DYM-8710FR

Wire & Cable Compound

Non Halogen Flame retardant Insulation Compound for Electric Train Cables

Description

DYM-8710FR is a thermosetting, non-halogen, low smoke and flame retardant insulation compound for electric train cables based on Polyolefin.(TR WL1, WL2) This compound is used for the insulation material of low voltage(600V, 1500V) cables for connection electric apparatus, lead wire and control cable.

Typical Physical-Electrical Properties

Test items	Test method	Unit	Value
Specific Gravity	ASTM D 792	-	1.32
Tensile Strength at break	ASTM D 638	MPa	11
Elongation at break		%	650
100% Modulus		MPa	3
T. S after ageing(Retained)	ASTM D 638	%	>95
Elongation after ageing(Retained) (After 96 Hrs at 150°C)		%	>90
Oil Resistance (IRM 902 Oil 70°Cx 4hrs)			
Tensile Strength(retained)	ASTM D 638	%	>80
Elongation(retained)		%	>95
Hot Set Test	Hot	IEC 60811-507	95
(200°C, 15min, 200kPa)	Set		8
Insulation Resistance	ASTM D 257	Ω·cm	>5×10 ¹⁴
Oxygen Index	ASTM D 2863	%	28
Smoke Density	ASTM E 662	Ds max	105
Smoke Emission	IEC 61034	%	84
Cracking Test 180°C × 144hrs	JRS 36000-5	-	No Crack
Halogen acid gas evolution	IEC 60754-1	%	0
Corrosivity of gases	pH	IEC 60754-2	5.0
	Conductivity	μS/mm	4.0

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-8710FR** are as followings ; Unit: °C

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Adapter	Head	Die
85±5	90±5	95±5	97±5	100±5	105±5	110±5	110±5

It is recommended that this product can be used conventional rubber extruder. (L/D is 12~15:1 and C/R is 1.3~2.0:1) 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.

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Color & Appearance

This compound is a basic black color, but colorable, and is supplied in pellet or ribbon 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 10~40°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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