

DYM-806FR

Wire & Cable Compound

Flame retardant Insulation Compound for Electric Train Cables

Description

DYM-806FR is a thermosetting, flame retardant insulation and sheathing compound for wire and cables. This compound is used for a trailing cable for use in the supply of energy for portable or mobile equipment.

Specifications

HD 22.1 S3
BS 7655 EM2

Typical Physical-Electrical Properties

| Test items | Test method | Unit | Value |
|--|---------------|---------|----------------------|
| Specific Gravity | ASTM D 792 | - | 1.45 |
| Tensile Strength at break | ASTM D 638 | MPa | 11 |
| Elongation at break | | % | 380 |
| 100% Modulus | | MPa | 3.3 |
| T. S after ageing(Retained) | ASTM D 638 | % | >90 |
| Elongation after ageing(Retained) (After 240 hrs at 70°C) | | % | >85 |
| Oil Resistance (IRM 902 Oil 100°C× 24hrs) | | | |
| Tensile Strength(retained) | ASTM D 638 | % | >65 |
| Elongation(retained) | | % | >65 |
| Hot set (200°C, 15min, 20N/cm ²) | IEC 60811-507 | | |
| Elongation under load | | % | 15 |
| Permanent elongation | | % | 0 |
| Insulation Resistance | ASTM D 257 | Ω·cm | 8.5×10 ¹² |
| Oxygen Index | ASTM D 2863 | % | 25 |
| Hardness | ASTM D 2240 | Shore A | 75 |

* Data should not be used for specification work.

Processing Techniques

Recommending standard extrusion temperature profiles of **DYM-806FR** are as followings ; Unit: °C

| Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Adapter | Head | Die |
|--------|--------|--------|--------|--------|---------|------|------|
| 70±5 | 75±5 | 78±5 | 80±5 | 85±5 | 85±5 | 85±5 | 85±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 50°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 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 10~40°C. Recommended maximum storage period in a dry and clean place is 12 months 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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