

Filmterm DMD Prepreg



Electrical
insulation
product

Three layers flexible insulating laminates, used for insulation of distribution cast resin transformers in thermal class F (155 °C).

Characteristics

Insulating flexible laminate DMD Prepreg belongs to Filmterm family.

DMD Prepreg is composed by a PET film (23 to 125 µm) laminated to two layers of PET nonwoven impregnated with a B-stage epoxy resin not completely cured.

The resin is reactivated at the time of manufacturing at the customer's side by following the appropriate curing process. This leads the product to achieve a solid bonding with the layers it is in contact with.

Filmterm DMD Prepreg is obtained by coating on both sides the base material Filmterm DMD I (UL file E476331) reaching the F Class as a result.

The product is especially used in cast resin distribution transformer as interlayer in the low-voltage winding.

Suggested curing conditions: 3 hours at 150°C or 5 hours at 130°C

Shelf life: 6 months - temperature between 5°C and 30°C

Formats

The product can be supplied in tapes from 8 mm width upwards, in rolls until 1800 mm, cut in sheets or die-cut according to customer's specifications.

Core internal diameter 76 or 152 mm (3 or 6 inches).

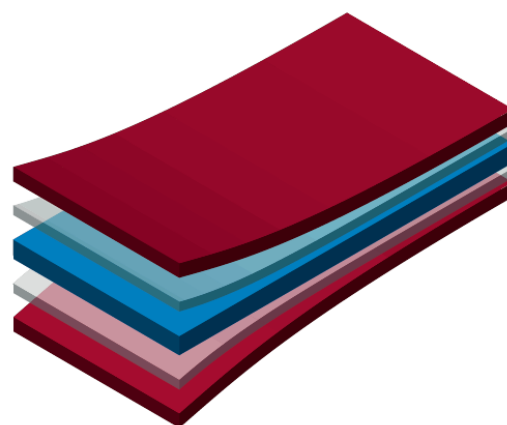
Available colors: dark red or natural.

Structure

■ Impregnated PET nonwoven

□ Adhesive

■ PET film



Technical Data

| Properties | Unit | Tolerance | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values |
|------------------------|--------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Film Thickness | µm | ±10% | 23 | 36 | 50 | 75 | 100 | 125 | 190 | 250 | 300 | 350 |
| Total Thickness | µm | ±10% | 0,105 | 0,13 | 0,15 | 0,18 | 0,20 | 0,23 | 0,29 | 0,35 | 0,40 | 0,45 |
| Weight | g/m ² | ±10% | 105 | 137 | 157 | 196 | 227 | 262 | 356 | 441 | 509 | 586 |
| Yield | m ² /Kg | ±10% | 9,52 | 7,30 | 6,37 | 5,21 | 4,41 | 3,82 | 2,81 | 2,27 | 1,96 | 1,71 |
| Breaking Strength (MD) | N/10mm | min | 60 | 70 | 90 | 105 | 120 | 150 | 200 | 300 | 300 | 350 |
| Elongation (MD) | % | min | 15 | 15 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 20 |
| Breakdown Voltage | KV | min | 5 | 5 | 7 | 8 | 10 | 12 | 15 | 18 | 20 | 22 |

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