

Filmterm NM5



Electrical
insulation
product

Two layers flexible insulating laminates, used for the insulation of electric motors and transformers in thermal class F (155 °C)/H (180 °C).

Characteristics

Insulating flexible laminates NM5 belong to Filmterm family.

NM5 is composed by a PET film (50 to 350 µm) laminated to one layer of 50 micron calendered aramid paper (2 mils) bonded with a solventless glue at controlled reticulation, according to ASTM D1830 standard.

NM5 is a two layers laminate, the PET film is giving the product mechanical and dielectric features, while the layer of aramid paper is giving the thermal resistance.

After impregnation at the customer side with varnishes and resins, the product reaches the H Class (180°C) as stated by the UL certification of the product (UL file E476331).

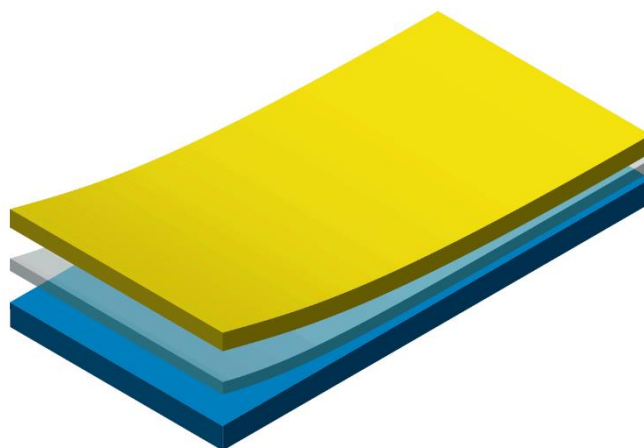
Business notes

The product can be supplied in tapes from 8 mm width upwards, in rolls until 2000 mm, cut in sheets or die-cut according to customer's specifications.

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

Structure

-  PET film
-  Adhesive
-  Aramid paper



Technical Data

Properties	Unit	Tolerance	Values							
Film Thickness	micron	±10%	50	75	100	125	190	250	300	350
Total Thickness	mmm	±10%	0,10	0,13	0,16	0,18	0,25	0,31	0,35	0,40
Yield	m ² /kg	±10%	8,77	6,75	5,30	4,65	3,26	2,56	2,17	1,88
Weight	g/m ²	±10%	114	148	190	215	306	390	460	531
Breaking Strength	N/10mm	min	80	90	100	120	200	300	320	340
Elongation	%	min	15	15	15	20	20	20	20	20
Breakdown voltage	kV	min	6	7	9	10	15	18	20	22

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