

# Filmterm NMN5 POLISTRAT



Electrical  
insulation  
product

Multiple layers flexible insulating laminates, mainly used for the physical and dielectrical separation between primary and secondary coils in cast resin transformers, thermal class H (180° C).

## Characteristics

Insulating flexible laminates NMN5 POLISTRAT belong to Filmterm family.

The product is made laminating several PET film layers to two external layers of 50 micron calendered aramid paper, solidly bonded with a solvent glue at controlled reticulation, according to ASTM D1830 standard.

The product is especially used for the physical separation between primary and secondary windings of cast resin transformers in thermal class H (180 °C).

NMN5 POLISTRAT is a multiple layers laminate, the PET films are giving the product mechanical and dielectric features, while the two layers of aramid paper are giving the thermal resistance.

## Business notes

The product can be supplied in roll from 30 mm 2000 mm width.

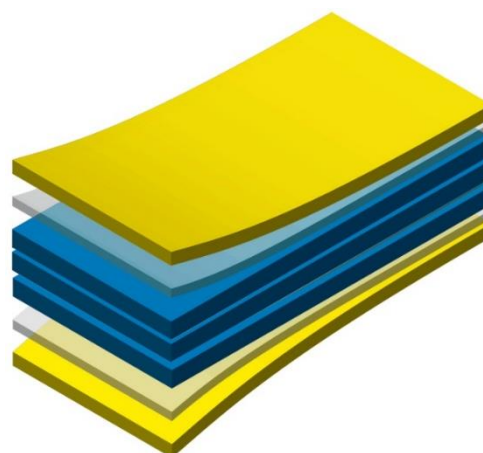
Core internal diameter 152 or 250 mm (6 or 10 inches).

## Structure

PET film

Adhesive

Aramid paper



## Technical Data

Properties	Unit	Tolerance	Values		
Nominal Thickness	mm	±10%	0,60	0,95	1,40
Film Thickness	micron	±10%	500	850	1200
Film Composition *			250x2*	300x2+250 *	300x4 *
Aramid Thickness (each side)	micron	±10%	50	50	50
Yield	m <sup>2</sup> /kg	±10%	1,25	0,78	0,56
Weight	g/m <sup>2</sup>	±10%	800	1285	1805
Tensile Strenght (MD)	N/10 mm	min	280	520	1200
Elongation	%	min	20	25	25
Breakdown voltage	kV	min	24	32	35

\*this is just an indication. Filmcutter reserves the possibility of modifying this composition as long as the total thicknesses and tolerances are respected.

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