

# Filmterm NMN5 Prepreg



Electrical  
insulation  
product

Three layers flexible insulating laminates, used for insulation of distribution cast resin transformers in the most severe conditions, thermal class H (180 °C).

## Characteristics

Insulating flexible laminates NMN Prepreg belong to Filmterm family.

NMN Prepreg is made laminating a PET film (23 to 350 µm) to two layers of aramid paper (50 µm) using a solventless glue. The laminate is afterward impregnated with a bi-stage epoxy-resin not completely cured. The resin is reactivated at the time of manufacturing on 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 NMN5 Prepreg is obtained by coating on both sides the base material Filmterm NMN5 (UL file E476331) reaching the H Class as a result.

**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

## 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).

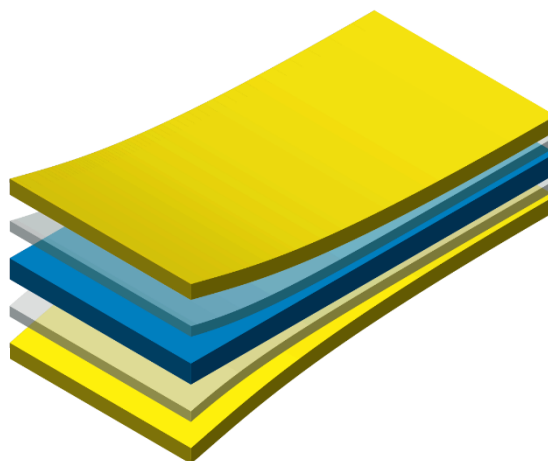
Available colors: dark red or natural.

## Structure

PET film

Adhesive

Impregnated Aramid paper



## Technical Data

Properties	Unit	Tolerance	Values									
Film Thickness	micron	±10%	23	36	50	75	100	125	190	250	300	350
Total Thickness	mm	±10%	0,13	0,15	0,17	0,19	0,22	0,25	0,32	0,38	0,42	0,47
Yield	m <sup>2</sup> /kg	±10%	6,50	5,88	5,21	4,44	3,85	3,37	2,68	2,18	1,92	1,67
Weight	g/m <sup>2</sup>	±10%	154	170	192	225	260	297	373	458	520	598
Breaking Strenght (MD)	N/10 mm	min	85	90	95	110	125	150	200	300	330	350
Elongation	%	min	15	15	15	15	15	20	20	20	20	20
Breakdown voltage	kV	min	5	6	7	12	13	14	16	20	22	24

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