

DATA SHEET		Article code	260xxxxRxxxxx
Code	SK027-AA-00-EN	Description	Laminato NMN5
Date of issue	27 settembre 2012	Language	English
Release/Revision	00	Number of pages	01

General Features

NMN/5 laminate is a flexible insulating material obtained by heat bonding two outside layers of Nomex® type 416 or type 464 with 50 µm thickness and one polyester film of varying thickness, through suitable adhesive. The two Nomex® layers basically slow down the aging process typical of polyester film.

NMN/5 laminates, with Nomex® high thermal features and polyester's excellent dielectric properties, can be used in electric machines with operating temperature up to 180°C.

The excellent malleability, the dimensional stability and the optimal electrical insulating features, make it a good product for electric machines construction, such as motors, for the slot insulation and slot cover, and in transformers and electrical equipment in general as insulating interlayer.

® = Dupont registered trade mark.

Technical data

Features	U.M.	Value								
Thickness range	mm	0.14	0.15	0,17	0,19	0,22	0,24	0,31	0,37	0.47
Basis weight	g/m ²	140	150	170	200	230	270	360	450	590
Tensile strength	N/10mm	100	150	160	170	190	220	270	330	400
Breakdown voltage	KV	6	7	8	11	12	14	19	23	28
Elongation	% min	15	15	15	15	15	15	20	20	20
Thermal class	" 180°C "									

Notes and prescriptions

The most common use for NMN/5 is the construction of motors, transformers, coils - and electrical machines in general, with thermal classes of use "F (155°C)" or "H (180°C)".

Production and working processes: the material can be supplied in master rolls of about 250Kg with height of **910mm** or in rolls cut to size with minimum height **8mm**.

NMN/5 can be used as rough material in the production of pieces to size, die cut (phase insulators, crescents, etc.), thermoformed (rotor slot insulators, slot covers, etc.), heat or cold shaped.

N.B.: Particular attention should be paid to storage, environmental conditions should not exceed **25° C**, medium guaranteed life **12 months**.

Be careful during cutting or rewinding not to cut, even partially, the surface or the sides of the material, this could affect the traction resistance.

Do not expose to contact with oils.