

NMN-H



NOMEX®-PET film-NOMEX® Flexible combined material (3 layers)



Composition:

NMN-H consists of 6020 transparent polyester film or 6021 milky polyester film, covered on both sides with calendered DOPONT nomex®464. The adhesive is acid-free and heat-resistant.

Properties:

NMN-H shows excellent mechanical properties like high tensile strength and high edge tear resistance combined with electrical properties. The NMN-H has a smooth surface which allows a trouble-free manufacture of low voltage motors when coil shooting machines are used. Heat resistance is class H(180°C).

Application:

NMN-H can be used as slots, gaskets and phase insulation for low voltage motors and electrical tools, or used as interlayer insulation in transformers.

Storage:

NMN-H can be stored indefinitely at (20°C, 50% r. h.)

Availability:

Rolls: non-trimmed width is 914mm/ trimmed width is 905mm

Sheets: from 905mm to 1000mm at any size

Tapes: from 5mm to 905mm

Roll diameter: about 300mm width

Core size: standard 76mm.

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Technical Data

Specification	Unit	Value					
Item		NMN-H					
Thickness	mm	0.11	0.12	0.14	0.17	0.19	0.21
Thickness Tolerance	mm	±0.02	±0.02	±0.02	±0.02	±0.02	±0.03
Norminal grammage and Tolerance	g/m2	119±11	134±13	153±15	188±19	223±22	258±26
Thickness of PET film	mm	0.025	0.036	0.05	0.075	0.10	0.125
Thickness of NOMEX®	mm	0.04					
Tensile Strength							
MD	N/10mm	≥100	≥150	≥160	≥170	≥190	≥220
TD	N/10mm	≥80	≥90	≥90	≥105	≥120	≥150
Elongation							
MD	%	≥15					
TD		≥20					
Breakdown Voltage Unfolded	KV	≥5	≥6	≥7	≥10	≥11	≥13
Cohesiveness (normal condition)		No delamination					
Cohesiveness (200±2°C 60min)		No delamination, No blister, No adhesive flow					
Thermal Rating class		H					
Color		creamy-white on both sides with“DUPONT NOMEX” and orange line					



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Specification	Unit	Value					
Item		NMN-H					
Thickness	mm	0.24	0.28	0.30	0.35	0.40	0.45
Thickness tolerance	mm	±0.03	±0.03	±0.03	±0.035	±0.040	±0.045
Norminal grammage and tolerance	g/m2	293±29	346±35	362±36	432±43	501±50	571±57
Thickness of PET film	mm	0.15	0.188	0.20	0.25	0.30	0.35
Thickness of NOMEX®	mm	0.04					
Tensile Strength							
MD	N/10mm	≥240	≥270	≥270	≥330	≥350	≥400
TD	N/10mm	≥210	≥250	≥250	≥300	≥330	≥350
Elongation							
MD	%	≥15					
TD		≥20					
Breakdown Voltage Unfolded	KV	≥13	≥17	≥17	≥22	≥24	≥27
Cohesiveness (normal condition)		No delamination					
Cohesiveness (200±2℃ 60min)		No delamination, No blister, No adhesive flow					
Thermal Rating class		H					
Color		creamy-white on both sides with“DUPONT NOMEX” and orange line					

