

6650 NHN-H



NOMEX®/polyimide film/NOMEX® Flexible Combined Material(3 layers)



Composition:

6650 NHN-N consists of gold polyimide film, covered on both sides with calendered DOPONT nomex®464. The adhesive is acid-free and heat-resistant.

Properties:

NHN-N shows excellent mechanical properties like high tensile strength and high edge tear resistance combined with electrical properties. The NHN has a smooth surface which allows a trouble-free manufacture of low voltage motors when coil shooting machines are used. Heat resistance is class N(200°C).

Application:

NHN can be used as slots, gaskets and phase insulation for H class voltage motors, electrical tools and generators, or as interlayer insulation in transformers.

Storage:

NHN-N 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		6650 NHN-N					
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
Nominal grammage and tolerance	g/m ²	109±11	124±12	143±14	178±18	213±21	248±25
Thickness of polyester 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 (220±2°C 10min)		No delamination, No blister, No adhesive flow					
Thermal rating class		N					
Color		covered on both sides with "DUPONT NOMEX" logo and orange line					



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Technical Data

Specification	Unit	Value					
Item		6650 NHN-N					
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
Nominal grammage and tolerance	g/m ²	283±28	336±34	352±35	422±42	491±49	561±56
Thickness of polyester 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 (220±2°C 10min)		No delamination, No blister, No adhesive flow					
Thermal rating class		Class N(200°C)					
Color		Covered on both sides with "DUPONT NOMEX" logo, orange line					



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