

6650 NHN-H



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



Description:

NHN-H passed UL certification, and perform the same standard for NHN.

Composition:

NHN-H consists of gold polyimide film, covered on both sides with NOMEX® 464 paper. The adhesive is acid-free and heat-resistant.

Properties:

NHN-H shows excellent mechanical properties like high tensile strength and high edge tear resistance combined with electrical properties. The smooth surface of NHN enables easy processing on automatic machines. The heat resistance is class H(180°C).

Applications:

It 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-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

Diameter: about 300mm width

Core size: 76mm

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Technical Data

Specification	Unit	Value					
Item		NHN-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
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 Aramid	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 unfolded	KV	≥5	≥6	≥7	≥10	≥11	≥13
Cohesiveness (normal condition)		No delamination					
Cohesiveness (200±2°C 10min)		No delamination, No blister, No adhesive flow					
Thermal rating class		H					
color		covered on both sides with" DUPONT NOMEX"logo and orange line					



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Specification	Unit	Value					
Item		NHN-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
Nominal grammage and tolerance	g/m ²	283±28	336±34	352±35	422±42	491±40	561±56
Thickness of polyester film	mm	0.15	0.188	0.20	0.25	0.30	0.35
Thickness of Aramid	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 unfolded	KV	≥13	≥17	≥17	≥22	≥24	≥27
Cohesiveness (normal condition)		No delamination					
Cohesiveness (200±2°C 10min)		No delamination, No blister, No adhesive flow					
Thermal rating class		H					
Color		covered on both sides with" DUPONT NOMEX"logo and orange line					



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