

SynTherm® NmHN/13080 SV2

Description SynTherm® NmHN/13080 SV2 is a flexible 3-ply insulation. It consists of a polyimide film with 130µm calendared Nomex® layer on one side with yellow strips and 80µm calendared Nomex® type 864 one other side.

Properties The excellent dielectric and thermal properties of the polyimide film and the outstanding thermal and mechanical properties of the Nomex® layers result in a high quality insulating material. The outer aramid layers protect the polyamide film against the effects of hydrolysis and mechanical load. The high specific volume resistance and the dielectric strength are not affected by temperatures below 200 °C.

The mica-containing layer of Nomex® 864 has higher AC Rapid Rise dielectric strength performance. The lamination has higher PDIV (Initial voltage) and longer life time in high electric spike environmental.

Application SynTherm® NmHN/13080 SV2 is used in electric motors with a high electric spike as slot insulation, phase insulation and wedges.

Furthermore, it can be used in transformers, inverter and other electrical equipment as core, interlayer and final insulation if very high temperature resistance is required with simultaneous mechanical load.

Standards Suitable for class N (200 °C) systems.

Insulating material according to IEC 626-1.
UL approved.
RoHS compliant according to 2011/65/EU.

Delivery format

- Total thickness in µm:
250

SynTherm® NmHN/13080 SV2 can be supplied:

- in slit rolls from widths of 6 mm (depending on thickness) and above
- in rolls approx. width of 900 mm
- in sheets approx. 600 x 900 mm 900 x 1000 mm

Overall diameter of the slit rolls/ rolls as required
approx. 240, 330 or 450 mm.

Feathering:

- depth approx. 1 - 12 mm, distance approx. 1 - 10 mm
- from widths of 10 to 240 mm and thickness of 0.20 mm

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Technical data

Electrical		
Items	Unit	SynTherm® NmHN/13080 SV2
Total thickness	mm	0.25
Dielectric strength	kV	8

Mechanical		
Items	Unit	SynTherm® NmHN/13080 SV2
Total thickness	mm	0.25
Max. thickness tolerance	%	15
Specific weight	g/m ²	245
Film thickness	µm	25
Aramid paper thickness	µm	130/80
Tensile strength MD	N/10m m	160
Tensile strength XD	N/10m m	100
Elongation MD	%	7
Elongation XD	%	5

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SynFlex Quality Network

