

Slot insulation Nomex Mylar (NM equiv. Hypertherm F) is a two-ply insulation laminate of calendered Nomex and polyester film. An ideal material for slot insulation in electric motors and generators for applications with higher working temperatures. The material is also suitable for transformers and other electrical applications.



Typical applications

Electrical insulation primarily slot insulation of electric motors and generators, but also suitable for use as insulation in dry transformers and other electrical apparatus.

Properties

- Approved for insulations class F (+155°C) or for insulation systems which comply with IEC norms up to +180°C.
- Highly suitable for automatic installation of slot insulation.
- Very good electrical properties.
- Very good mechanical properties regarding tear strength and resistance to abrasion.
- Very good durability.
- Can be punched or cut.

Composition

Nomex Mylar consists of a laminate comprising of one layer calendered Nomex (aramid paper) and a layer of polyester film. The base layer material, Nomex, is manufactured in thicknesses 50 µm, 80 µm, 130 µm and 180 µm.

The products are also available with varying thicknesses of polyester film (see technical data). A specially developed synthetic adhesive bonds the laminate into a unit whilst retaining inherent properties even when used in the material's higher temperature range.

Colour

Usually pale white.

Dimensions

- We offer Nomex Mylar as a standard material in thicknesses 110–450 µm.
- Standard trimmed widths 450 mm and 900 mm.

Can be slit to desired widths up to max 900 mm.

Can be punched or cut to desired form or shape. In the case of die-cutting a die tool is required (tools available at low costs).

Packaging

- Standard packaging width 450 mm in rolls of ca 5 kg (certain thicknesses available for immediate delivery, see item list).
- Standard packaging width 900 mm depending on item in rolls of 25–30 kg.

Article list

Item number	Name/Grade	Dimensions			Weight/roll ca (kg)	Weight g/m ² (nom.)	Length/roll ca (m)
		Thickness (mm)/tol	Width (mm)	Innerdia (mm)			
125527	NM/ 2/5	0.18+/-12 %	450	76	5	230	48
111341	NM/ 3/5	0.22 +/-12 %	450	76	6	255	52
125528	NM/ 3/7.5	0.28 +/-12 %	450	76	6	340	39
125529	NM/ 3/10	0.34 +/-12 %	450	76	6	420	32
	NM/ 2/5	0.18 +/-12 %	900	76	25	230	120
111342	NM/ 3/5	0.22 +/-12 %	900	76	30	255	130
111343	NM/ 3/7.5	0.28 +/-12 %	900	76	25	340	82
	NM/ 3/10	0.34 +/-12 %	900	76	25	420	66

Technical data

Properties	Standard									Unit
Nominal thickness (ca)	IEC-626	110	130	180	250	310	410	140	160	µm
Mechanical properties										
Thickness Nomex		50	50	50	50	50	50	80	80	µm
Thickness polyester film		50	75	125	190	250	350	50	75	µm
Name/thickness (grade)		2/2	2/3	2/5	2/7.5	2/10	2/14	3/2	3/3	D/M/D
Weight/m ² (nominal)		125	160	230	320	390	550	155	190	g/m ²
Tensile strength*					230	280				N/10 mm (min)
Elongation MD*		20	20	20	20	20		15		% (min)
Termiska egenskaper										
Electrical insulation class		F/155	F/155	F/155	F/155	F/155	F/155	F/155	F/155	class/°C
Elektriska egenskaper										
Dielectric strength (surge at 21°C)		8	8	8	8	18	ca 25	9		kV (min)

Properties	Standard									Unit
Nominal thickness (ca)	IEC-626	220	280	340	440	330	400	450		µm
Mechanical properties										
Thickness Nomex		80	80	80	80	1300	130	180		µm
Thickness polyester film		125	190	250	350	190	250	250		µm
Name/thickness (grade)		3/5	3/7.5	3/10	3/14	5/7.5	5/10	7/10		D/M/D
Weight/m ² (nominal)		225	340	420	565	390	480	535		g/m ²
Tensile strength*			230	280			270	230		N/10 mm (min)
Elongation MD*			20	20			10	8		% (min)
Termiska egenskaper										
Electrical insulation class		F/155	F/155	F/155	F/155	F/155	F/155	F/155		class/°C
Elektriska egenskaper										
Dielectric strength (surge at 21°C)		ca 15	16	18			20	22		kV (min)

*Tests made for specific dimensions

How to contact BEVI

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