

ISONOM[®] NMN 0881

Composition

ISONOM[®] NMN 0881 consists of PET film, covered on both sides with calendered Nomex¹ Type 464.

Applications

ISONOM[®] NMN 0881 is mainly used as a slot liner, slot closure and phase insulation in the production of low voltage motors. Beside this ISONOM[®] NMN 0881 is used as interlayer insulation in transformers and other electrical machines and appliances.

Properties

ISONOM[®] NMN 0881 is a combined flexible material of thermal classification 155° C to 180°C with excellent mechanical properties like high tensile strength and high edge tear resistance combined with high electrical strength.

ISONOM[®] NMN 0881 has a smooth surface which allows a trouble free manufacture of low voltage motors where coil shooting machines are used.

Formats

Sheets:	on request
Rolls:	untrimmed approx. 920 mm or 1840mm
Tapes:	from 5 mm width upwards

Storability

ISONOM[®] NMN 0881 can be stored originally packed unlimited under normal conditions (RT, 50% r. h.).

¹ NOMEX is a registered trademark of DU PONT

All information given here is based on currently available facts and on the results of experiments performed with all due care in our laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

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TECHNICAL DATA

Properties	Test method	Unit	Value	Value	Value	Value	Value
Nominal thickness	IEC 60626	mm	0,14	0,15	0,17	0,20	0,22
Tolerance	IEC 60626	%	± 15	± 15	± 15	± 15	± 15
Total substance	IEC 60626	g/m ²	138	156	176	211	246
Nomex 464		µm	50	50	50	50	50
PET-film		µm	23	36	50	75	100
Nomex 464		µm	50	50	50	50	50
Breakdown voltage	IEC 60626	kV	≥ 7	≥ 7	≥ 9	≥ 11	≥ 12
Breakdown voltage after folding	IEC 60626	kV	≥ 7	≥ 7	≥ 9	≥ 10	≥ 11
Tensile strength MD TD	IEC 60626	N/cm	≥ 130 ≥ 80	≥ 150 ≥ 90	≥ 170 ≥ 100	≥ 200 ≥ 170	≥ 220 ≥ 200
Elongation MD TD	IEC 60626	%	≥ 15 ≥ 20	≥ 15 ≥ 20	≥ 15 ≥ 20	≥ 15 ≥ 20	≥ 15 ≥ 20
Thermal classification	IEC 60626 UL 1446	°C			155-180 180		

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TECHNICAL DATA

Properties	Test method	Unit	Value	Value	Value	Value	Value
Nominal thickness	IEC 60626	mm	0,24	0,30	0,37	0,42	0,48
Tolerance	IEC 60626	%	± 15	± 15	± 10	± 10	± 10
Total substance	IEC 60626	g/m ²	281	371	456	526	596
Nomex 464		µm	50	50	50	50	50
PET-film		µm	125	190	250	300	350
Nomex 464		µm	50	50	50	50	50
Breakdown voltage	IEC 60626	kV	≥ 14	≥ 19	≥ 23	≥ 22	≥ 28
Breakdown voltage after folding	IEC 60626	kV	≥ 12	≥ 15	≥ 18	≥ 20	≥ 22
Tensile strength MD TD	IEC 60626	N/cm	≥ 220 ≥ 200	≥ 280 ≥ 260	≥ 340 ≥ 300	≥ 380 ≥ 320	≥ 410 ≥ 370
Elongation MD TD	IEC 60626	%			≥ 20 ≥ 25		
Thermal classification	IEC 60626 UL 1446	°C			155-180 180		

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