ISONOM® NMN 0881

Composition:

ISONOM® NMN 0881 consists of PET film, covered on both sides with calendered Nomex[1].

Properties:

ISONOM® NMN 0881 is a combined flexible material of thermal classification 155° C (F) 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.

Applications:

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

Formats:

Sheets:	on request
Rolls:	untrimmed approx. 920 mm
Tapes:	from 10 mm width upwards

Storability:

ISONOM® NMN 0881 can be stored unlimited under normal conditions (20° C, 50% r. h.).

[1] NOMEX is a registered trademark of DU PONT

ISOVOLTA AG
A-2355 Wiener Neudorf
Phone: +43/5/9595-0
Fax: +43/5/9595-9499
electrical-insulation@isovolta.com
www.isovolta.com

Technical Data

ISONOM® NMN 0881							
Properties	**Test method**	**Unit**	**Value**	**Value**	**Value**	**Value**	**Value**
Nominal thickness		mm	0.13	0.15	0.17	0.20	0.22
Tolerance	IEC 626	mm	± 0.01	± 0.02	± 0.02	± 0.02	± 0.02
Total substance	IEC 626	g/m²	144	162	182	217	252
Nomex		µm	50	50	50	50	50
PET-film		µm	23	36	50	75	100
Nomex		µm	50	50	50	50	50
Breakdown voltage	IEC 626	kV	≥ 7	≥ 7	≥ 9	≥ 11	≥ 12
Breakdown voltage after folding	IEC 626	kV	≥ 7	≥ 7	≥ 9	≥ 10	≥ 11
Tensile strength MD TD	IEC 626	N/10mm N/10mm	≥ 160 ≥ 100	≥ 150 ≥ 110	≥ 170 ≥ 140	≥ 200 ≥ 170	≥ 220 ≥ 200
Elongation MD TD	IEC 626	% %	≥ 15 ≥ 20	≥ 20 ≥ 20	≥ 15 ≥ 20	≥ 20 ≥ 20	≥ 20 ≥ 20
Thermal classification	IEC 216 UL 1446	°C	155 180				

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Technical Data

ISONOM® NMN 0881							
Properties	**Test method**	**Unit**	**Value**	**Value**	**Value**	**Value**	**Value**
Nominal thickness		mm	0.24	0.30	0.36	0.42	0.48
Tolerance	IEC 626	mm	+ 0.03	+ 0.03 -0.01	± 0.03	± 0.03	± 0.03
Total substance	IEC 626	g/m²	287	377	462	532	602
Nomex		µm	50	50	50	50	50
PET-film		µm	125	190	250	300	350
Nomex		µm	50	50	50	50	50
Breakdown voltage	IEC 626	kV	≥ 14	≥ 19	≥ 23	≥ 22	≥ 28
Breakdown voltage after folding	IEC 626	kV	≥ 12	≥ 15	≥ 18	≥ 20	≥ 22
Tensile strength MD TD	IEC 626	N/10mm N/10mm	≥ 220 ≥ 200	≥ 280 ≥ 260	≥ 340 ≥ 300	≥ 380 ≥ 320	≥ 410 ≥ 370
Elongation MD TD	IEC 626	% %	≥ 20 ≥ 25				
Thermal classification	IEC 216 UL 1446	°C	155 180				

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ISONOM® NMN 8 0883

Composition:

ISONOM® NMN 8 0883 consists of PET film, covered on both sides with calendered Nomex[1].

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Applications:

ISONOM® NMN 8 0883 is mainly used as a slot liner, slot closure and phase insulation in the production of low voltage motors. Besides this ISONOM® NMN 8 0883 is used as interlayer insulation in transformers and other electrical machines and appliances.

Formats:

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Rolls:	untrimmed approx. 920 mm
Tapes:	from 10 mm width upwards

Storability:

ISONOM® NMN 8 0883 can be stored unlimited under normal conditions (20° C, 50% r. h.).

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Technical Data

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Properties		**Test method**	**Unit**	**Value**	**Value**	**Value**	**Value**	**Value**
Nominal thickness			mm	0.19	0.20	0.22	0.24	0.26
Tolerance		IEC 626	mm	± 0.02	± 0.02	+ 0.03 - 0.01	+ 0.03 - 0.01	± 0.03
Total substance		IEC 626	g/m²	194	212	232	267	302
Nomex			µm	80	80	80	80	80
PET-film			µm	23	36	50	75	100
Nomex			µm	80	80	80	80	80
Breakdown voltage		IEC 626	kV	≥ 7	≥ 8	≥ 9	≥ 12	≥ 13
Breakdown voltage after folding		IEC 626	kV	≥ 7	≥ 8	≥ 9	≥ 10	≥ 13
Tensile strength	MD TD	IEC 626	N/10mm N/10mm	≥ 160 ≥ 100	≥ 180 ≥ 140	≥ 200 ≥ 180	≥ 250 ≥ 230	≥ 280 ≥ 260
Elongation	MD TD	IEC 626	% %	≥ 20 ≥ 20				
Thermal classification		IEC 216 UL 1446	°C	155 180				

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Technical Data

ISONOM® NMN 8 0883							
Properties	**Test-method**	**Unit**	**Value**	**Value**	**Value**	**Value**	**Value**
Nominal thickness		mm	0.30	0.36	0.42	0.48	0.53
Tolerance	IEC 626	mm	± 0.02	± 0.02	± 0.03	± 0.03	± 0.05
Total substance	IEC 626	g/m²	337	427	512	582	652
Nomex		µm	80	80	80	80	80
PET-film		µm	125	190	250	300	350
Nomex		µm	80	80	80	80	80
Breakdown voltage	IEC 626	kV	≥ 15	≥20	≥ 23	≥ 25	≥ 28
Breakdown voltage after folding	IEC 626	kV	≥ 14	≥ 16	≥ 19	≥ 20	≥ 22
Tensile strength MD TD	IEC 626	N/10mm N/10mm	≥ 300 ≥ 280	≥ 380 ≥ 340	≥ 380 ≥ 340	≥ 450 ≥ 420	≥ 450 ≥ 420
Elongation MD TD	IEC 626	% %	≥ 20 ≥ 20	≥ 20 ≥ 25			
Thermal classification	IEC 216 UL 1446	°C	155 180				

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