

Isonom[®] NMN 0881

Composition

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

Properties

Isonom[®] NMN 0881 is a combined flexible material with a thermal rating class of 180°C (H) according to UL 1446 and a thermal classification 155° C (F) according to IEC 216. Isonom[®] NMN 0881 has 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 : trimmed approx. 900 mm; untrimmed approx. 920 mm
Tapes : from 10 mm width upwards

Storage

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

¹NOMEX is a registered trademark of DU PONT

ISOVOLTA AG, A Constantia Iso AG Company



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Isonom[®] NMN 0881

Properties		Test Method	Unit	Values				
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/m ²	144	162	182	217	252
Nomex ¹			µm	50	50	50	50	50
PET Film			µm	23	36	50	75	100
Nomex ¹			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	IEC 626	N/10mm	≥ 160	≥ 150	≥ 170	≥ 200	≥ 220
	TD		N/10mm	≥ 100	≥ 110	≥ 140	≥ 170	≥ 200
Elongation	MD	IEC 626	%	≥ 15	≥ 20	≥ 15	≥ 20	≥ 20
	TD		%	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20
Thermal Classification		IEC 216	°C	155				
Thermal Classification		UL 1446	°C	180				

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Properties	Test Method	Unit	Value					
			0.24	0.30	0.36	0.42	0.48	
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/m ²	287	377	462	532	602	
Nomex ¹		µm	50	50	50	50	50	
PET Film		µm	125	190	250	300	350	
Nomex ¹		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	°C	155					
Thermal Classification	UL 1446	°C	180					

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