

# ISONOM<sup>®</sup> NMN 3519

## Composition

ISONOM<sup>®</sup> NMN 3519 consists of PET film, covered on both sides with calendered Nomex1 type 464.

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## Application

ISONOM<sup>®</sup> NMN 3519 is mainly used as a slot liner, slot closure and phase insulation in the production of low voltage motors. Beside this, ISONOM<sup>®</sup> NMN 3519 is used as interlayer insulation in transformers and other electrical machines and appliances.

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## Properties

ISONOM<sup>®</sup> NMN 3519 is a combined flexible material of thermal classification 155° C - 180°C with excellent mechanical properties like high tensile strength and high edge tear resistance combined with high electrical strength. ISONOM<sup>®</sup> NMN 3519 has a smooth surface which allows a trouble free manufacture of low voltage motors where coil shooting machines are used.

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## Formats

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

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## Storability

Originally packed, ISONOM<sup>®</sup> NMN 3519 can be stored unlimited under normal conditions (RT, 50% r. h.).

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<sup>1</sup> 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	Value	
Nominal thickness	IEC 60626	mm	0,10	0,12	0,13	0,15	0,18	0,20	
Thickness tolerance	IEC 60626	%	±15	±15	±15	±15	±15	±15	
Total substance	IEC 60626	g/m <sup>2</sup>	96	104	122	142	177	212	
Nomex 464		µm	40	40	40	40	40	40	
PET-film		µm	12	23	36	50	75	100	
Nomex 464		µm	40	40	40	40	40	40	
Breakdown voltage	IEC 60626	kV	≥ 4	≥ 5	≥ 6	≥ 7	≥ 10	≥ 11	
Tensile strength	MD XD	IEC 60626	N/10mm	≥ 70	≥ 100	≥ 150	≥ 160	≥ 170	≥ 190
			N/10mm	≥ 50	≥ 80	≥ 90	≥ 90	≥ 105	≥ 120
Elongation	MD XD	IEC 60626	%			≥ 15			
			%			≥ 20			
Thermal classification	IEC 60216 UL 1446	°C				155			
						180			

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## TECHNICAL DATA

Properties	Test method	Unit	Value	Value	Value	Value	Value	
Nominal thickness	IEC 60626	mm	0,22	0,29	0,35	0,40	0,45	
Thickness tolerance	IEC 60626	%	±15	±15	±10	±10	±10	
Total substance	IEC 60626	g/m <sup>2</sup>	247	337	422	492	562	
Nomex 464		µm	40	40	40	40	40	
PET-film		µm	125	190	250	300	350	
Nomex 464		µm	40	40	40	40	40	
Breakdown voltage	IEC 60626	kV	≥ 13	≥ 18	≥ 22	≥ 24	≥ 27	
Tensile strength	MD XD	IEC 60626	N/10mm	≥ 220	≥ 270	≥ 330	≥ 350	≥ 400
			N/10mm	≥ 150	≥ 200	≥ 300	≥ 330	≥ 350
Elongation	MD XD	IEC 60626	%			≥ 15		
			%			≥ 20		
Thermal classification	IEC 60216 UL 1446	°C				155		
						180		

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