

## ISONOM<sup>®</sup> NKN 13 0887

Description:

ISONOM<sup>®</sup> NKN 13 0887 consists of Polyimide film, covered on both sides with calendered Nomex<sup>1</sup>.

Properties:

ISONOM<sup>®</sup> NKN 13 0887 is a combined flexible material of thermal classification 180° C (H) with good mechanical properties like high tensile strength and high tear resistance combined with high electrical strength.

ISONOM<sup>®</sup> NKN 13 0887 has a smooth surface which allows a trouble free manufacture of low voltage motors where coil inserting machines are used.

Application:

ISONOM<sup>®</sup> NKN 13 0887 is mainly used as a slot liner, slot closure and phase insulation in thermal high stressed electrical motors. ISONOM<sup>®</sup> NKN is also used as interlayer insulation in transformers and other electrical machines and appliances.

Formats:

sheetswidth app. 920 mm, length on requestRolls:width 920 mm untrimmedTapes:from 10 mm width upwards

Storability:

ISONOM<sup>®</sup> NKN 13 0887 can be stored unlimited under normal conditions (20°C, 50% r. h.).

Page 1 of 2 E ISONOM NKN 13 0887 Created on 05/03/2005 All information given here is based on currently available facts 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. 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 <sup>®</sup> NKN 13 0887								
Properties	Test method	Unit	Value	Value	Value	Value		
Nominal thickness		mm	0.30	0.33	0.35	0.40		
Tolerance	IEC 626	mm	± 0.03	± 0.03	± 0.04	± 0.04		
Total substance	IEC 626	g/m²	297	333	370	438		
Nomex	IEC 626	μm	130	130	130	130		
Polyimide film	IEC 626	μm	25	50	75	125		
Nomex	IEC 626	μm	130	130	130	130		
Breakdown voltage	IEC 626	kV	≥9	≥ 13	≥ 15	≥ 20		
Breakdown voltage after folding	IEC 626	kV	≥8	≥ 12	≥ 14	≥ 18		
Tensile strength MD TD	IEC 626	N/cm	≥ 270 ≥ 180	≥ 320 ≥ 210	≥ 390 ≥ 250	≥ 520 ≥ 320		
Thermal classification	IEC 216 UL 1446	°C	180 200					

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A Constantia INDUSTRIES AG COMPANY





## ISONOM<sup>®</sup> NKN 8 0886

Composition:

ISONOM<sup>®</sup> NKN 8 0886 consists of Polyimide film, covered on both sides with calendered Nomex<sup>1</sup>.

Properties:

ISONOM<sup>®</sup> NKN 8 0886 is a combined flexible material of thermal classification 180° C (H) with good mechanical properties like high tensile strength and high tear resistance combined with high electrical strength.

ISONOM<sup>®</sup> NKN 8 0886 has a smooth surface which allows a trouble free manufacture of low voltage motors where coil inserting machines are used.

Application:

ISONOM<sup>®</sup> NKN 8 0886 is mainly used as a slot liner, slot closure and phase insulation in thermal high stressed electrical motors. ISONOM<sup>®</sup> NKN is also used as interlayer insulation in transformers and other electrical machines and appliances.

Formats:

sheetswidth app. 920 mm, length on requestRolls:width 920 mm untrimmedTapes:from 10 mm width upwards

Storability:

ISONOM<sup>®</sup> NKN 8 0886 can be stored unlimited under normal conditions (20°C, 50% r. h.).

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## **Technical Data**

ISONOM <sup>®</sup> NKN 8 0886									
Properties	Test method	Unit	Value	Value	Value	Value			
Nominal thickness		mm	0.20	0.22	0.26	0.30			
Tolerance	IEC 626	mm	± 0.02	± 0.02	± 0.02	± 0.03			
Total substance	IEC 626	g/m²	195	231	268	332			
Nomex	IEC 626	μm	80	80	80	80			
Polyimide film	IEC 626	μm	25	50	75	125			
Nomex	IEC 626	μm	80	80	80	80			
Breakdown voltage	IEC 626	kV	≥ 7	≥ 9	≥ 14	≥ 19			
Breakdown voltage after folding	IEC 626	kV	≥7	≥ 9	≥ 14	≥ 19			
Tensile strength MD TD	IEC 626	N/cm	≥ 160 ≥ 120	≥ 200 ≥ 180	≥ 250 ≥ 200	≥ 280 ≥ 220			
Elongation MD TD	IEC 626	%	≥ 15						
Thermal Classification	IEC 216	°C	180						

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