

# ISONOM® NMN 8 0883

## Composition

ISONOM<sup>®</sup> NMN 8 0883 consists of PET-film, covered on both sides with Nomex<sup>1</sup> type 416. For bonding the layers a high temperature adhesive system is used.

## **Properties**

ISONOM® NMN 8 0883 is a combined flexible material of thermal rating class 180°C (H) with excellent mechanical properties like high tensile strength and high edge tear resistance combined with high electrical strength.

ISONOM® NMN 8 0883 has a smooth surface which allows a trouble free manufacture of low voltage and medium voltage motors where coil shooting machines are used.

# **Applications**

ISONOM® NMN 8 0883 is mainly used as a slot liner, slot closure and phase insulation in the production of low voltage and medium voltage motors.

Besides this ISONOM® NMN 8 0883 is used as interlayer insulation in transformers and other electrical machines and appliances.

#### **Formats**

Sheets: untrimmed width 36.2 inches x length on request

Rolls: max. untrimmed width 36.2 or 72.5 inches

Tapes: from 0.4 inches width upwards

### Shelf Life

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

<sup>&</sup>lt;sup>1</sup> NOMEX is a registered trademark of DuPont



# **Technical Data**

ISONOM® NMN 8 0883										
Properties	Test- method	Unit	Value	Value	Value	Value	Value			
Composite			3-1-3	3-1.5-3	3-2-3	3-3-3	3-4-3			
Composite thickness	ASTM D374	inches	0.007	0.008	0.009	0.0095	0.01			
Product yield	ASTM D202	Sq.Yds./ Lb	2.80	2.56	2.34	2.03	1.80			
Dielectric strength	ASTM D149	kV	≥ 7	≥ 8	≥ 9	≥ 12	≥ 13			
Tensile strength MD TD	ASTM D828	Lbs. / In Lbs. / In	≥ 90 ≥ 56	≥ 101 ≥ 78	≥ 112 ≥ 101	≥ 140 ≥ 129	≥ 157 ≥ 146			
Elongation MD TD	ASTM D828	% %			≥20 ≥20					
Thermal classification	UL 1446	°C	180							

Properties	Test- method	Unit	Value	Value	Value	Value	Value		
Composite			3-5-3	3-7.5-3	3-10-3	3-12-3	3-14-3		
Composite thickness	ASTM D374	inches	0.012	0.014	0.017	0.019	0.021		
Product yield	ASTM D202	Sq.Yds./ Lb	1.61	1.27	1.06	0.93	0.83		
Dielectric strength	ASTM D149	kV	≥ 15	≥ 20	≥ 23	≥ 25	≥ 28		
Tensile strength MD TD	ASTM D828	Lbs. / In Lbs. / In	≥ 168 ≥ 157	≥ 213 ≥ 190	≥ 213 ≥ 190	≥ 252 ≥ 235	≥ 252 ≥ 235		
Elongation MD TD	ASTM D828	% %	≥20 ≥20	≥ 20 ≥ 25					
Thermal classification	UL 1446	°C		180					

Page 2 of 2 US ISONOM NMN 8 0883 Created on 08/01/2005 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