

ISONOM[®] NMN 8 0883

Composition

ISONOM[®] NMN 8 0883 consists of PET-film, covered on both sides with Nomex¹ 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.).

¹ 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				