Dr. Dietrich Müller GmbH
Zeppelinring 18
D-26197 Ahlhorn

Tel.: +49 (0) 44 35 - 97 10 10
Fax: +49 (0) 44 35 - 97 10 11
Info@mueller-ahlhorn.com

Electrical Insulation Material

Flexiso® NMN 411 FI 14060

Composition:

Flexiso® NMN 411 FI 14060 is a flexible three-layer material, which consists of a layer of polyester film that is laminated with uncalendered aramid paper of a thickness of 80 microns on both sides. Flexiso® NMN 411 FI 14060 is used for applications up to 155°C.

Properties:

Flexiso® NMN 411 FI 14060 is an insulating material with insulation class F (155°C) and particularly good mechanical properties, such as tensile strength and edge tear resistance combined with high dielectric strength. Flexiso® NMN 411 FI 14060 also has a rough surface and therefore it can be impregnated very good with impregnating resin.

Applications:

Flexiso® NMN 411 FI 14060 is mainly used in electric motors as slot and phase insulation. Flexiso® NMN 411 FI 14060 is also used in the transformer construction as layer insulation.

Delivery forms:

Flexiso® NMN 411 FI 14060 is available on rolls (approx. 900 mm wide) and reels (from 4 mm width). Further formats, cuts, die-cut or formed parts are also available according to customer request, for example self-adhesive forms can also be supplied.

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Storage conditions: Flexiso® NMN 411 FI 14060 can be stored for an unlimited period under normal conditions (20°C, 50% relative air humidity). The material should be protected from humidity, dryness, direct sunlight, UV radiation exposure and heat.

Property	Test method	Unit	Value		
Total Thickness	IEC 626-2	mm	0.27 ± 20%	0.30 ± 20%	0.38 ± 20%
Film Thickness	IEC 626-2	µm	36	50	125
Basis Weight	IEC 626-2	g/m²	155	170	280
Tensile Strength					
Lengthwise	IEC 626-2	N/mm²	≥30	≥30	≥60
Crosswise	IEC 626-2	N/mm²	≥25	≥30	≥50
Elongation					
Lengthwise	IEC 626-2	%	≥8	≥9	≥15
Crosswise	IEC 626-2	%	≥12	≥15	≥25
Dielectric Strength	IEC 626-2	kV	≥7	≥9	≥17

Trademark Information: Flexiso® is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany.

Information: The information in this Technical Data Sheet is based on our present knowledge and experiences. It does not release the user from conducting their own trials and examinations to determine the suitability of the product for his intended use. A legally obligatory warranty of certain characteristics or the suitability for a specific targeted application cannot be derived from our data. Depending upon individual cases we recommend consultation with us. Any patent rights as well as existing laws are to be considered by the receiver of our products as their own responsibility.