

## Electrical Insulation Material

### Flexiso<sup>®</sup> NMN 13 FI 14050

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**Composition:** Flexiso<sup>®</sup> NMN 13 FI 14050 is a flexible two-layer material, which consists of a layer of polyester film that is laminated with calendered aramid paper of a thickness of 80 microns on both sides. Flexiso<sup>®</sup> NMN 13 FI 14050 is used for applications up to 155°C.

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**Properties:** Flexiso<sup>®</sup> NMN 13 FI 14050 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<sup>®</sup> NMN 13 FI 14050 also has a smooth surface and therefore it can also be processed into fully automated production lines.

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**Applications:** Flexiso<sup>®</sup> NMN 13 FI 14050 is mainly used in electric motors as slot insulation and slot closures. Flexiso<sup>®</sup> NMN 13 FI 14050 is also used in the transformer construction as layer insulation.

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**Delivery forms:** Flexiso<sup>®</sup> NMN 13 FI 14050 is available on rolls (approx. 900 mm wide) and reels (from 4mm 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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## Flexiso® NMN 13 FI 14050

**Storage conditions:** Flexiso® NMN 13 FI 14050 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	0.14 ± 0.01	0.19 ± 0.02	0.28 ± 0.03	0.34 ± 0.03
Film Thickness	IEC-626-2	µm	50	100	190	250
Basis Weight	IEC-626-2	g/m <sup>2</sup>	151	221	346	431
Tensile Strength						
Lengthwise	IEC-626-2	N/m m <sup>2</sup>	≥170	≥220	≥300	≥380
Crosswise			≥140	≥180	≥280	≥300
Elongation						
Lengthwise	IEC-626-2	%	≥15	≥20	≥25	≥20
Crosswise			≥20	≥20	≥20	≥25
Dielectric Strength	IEC-626-2	kV	≥9	≥15	≥17	≥20

**Trademark Information:** Flexiso® is a registered trademark of the company Dr. Dietrich Müller GmbH Ahlhorn. Nomex® is a registered trademark of the company DuPont.

**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.

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