

## electrical insulation material

### Flexiso® NMN 5 FI 14030

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**Structure:** Flexiso® NMN 5 FI 14030 is a flexible three-layer material, which consists of a layer of polyester film that is laminated with calendered aramid paper of a thickness of 50 microns on both sides. Flexiso® NMN 5 FI 14030 is used for applications up to 155 °C.

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**Characteristics:** Flexiso® NMN 5 FI 14030 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 5 FI 14030 also has a smooth surface and therefore it can also be processed into fully automated production lines.

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**Application:** Flexiso® NMN 5 FI 14030 is mainly used in electric motors as slot insulation and slot closures, as well as phase insulation. Flexiso® NMN 5 FI 14030 is also used in the transformer construction as core, layer and cover insulation.

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**Form of supply:** Flexiso® NMN 5 FI 14030 is available on rolls (approx. 900 mm wide) cuts (approx. 600 mm x 900 mm or approx. 900 mm x 100 mm) and Tapes (from 4 mm width) are also available. Other delivery forms upon customer request.

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**Storage Conditions:** Flexiso® NMN 5 FI 14030 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 to heat.

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## Flexiso® NMN 5 FI 14030

Properties	Norm	Unit	Value				
			0.13	0.15	0.17	0.20	0.22
Total thickness	IEC 626-2	mm	0.13 ± 0.01	0.15 ± 0.01	0.17 ± 0.01	0.20 ± 0.01	0.22 ± 0.02
Film thickness	IEC 626-2	µm	23	36	50	75	100
Basis weight	IEC 626-2	g/m <sup>2</sup>	144	162	182	217	252
Tensile strength lengthwise crosswise	IEC 626-2	N/mm <sup>2</sup>	≥160 ≥100	≥150 ≥110	≥170 ≥140	≥200 ≥170	≥220 ≥200
Elongation lengthwise crosswise	IEC 626-2	%	≥20 ≥25	≥20 ≥25	≥20 ≥25	≥20 ≥25	≥20 ≥25
Dielectric strength	IEC 626-2	kV	≥7	≥7	≥9	≥11	≥12

Properties	Norm	Unit	Value				
			0.24	0.30	0.36	0.42	0.46
Total thickness	IEC 626-2	mm	0.24 ± 0.02	0.30 ± 0.02	0.36 ± 0.03	0.42 ± 0.03	0.46 ± 0.03
Film thickness	IEC 626-2	µm	125	190	250	300	350
Basis weight	IEC 626-2	g/m <sup>2</sup>	287	377	462	532	602
Tensile strength lengthwise crosswise	IEC 626-2	N/mm <sup>2</sup>	≥250 ≥240	≥280 ≥260	≥340 ≥300	≥380 ≥320	≥410 ≥370
Elongation lengthwise crosswise	IEC 626-2	%	≥20 ≥25	≥20 ≥25	≥20 ≥25	≥20 ≥25	≥20 ≥25
Dielectric strength	IEC 626-2	kV	≥14	≥19	≥23	≥22	≥28

Thickness	0,13	0,17	0,22	0,24	0,30	0,36	0,42
Availability	●	●	●	●	●	●	●

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## Flexiso® NMN 5 FI 14030

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

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**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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