

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

Electrical Insulation Material

Flexiso[®] NMN 5 FI 14030

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.

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.

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.

Form of Supply: Flexiso[®] NMN 5 FI 14030 is available on rolls (aprox. 900 mm wide) Sizes (aprox. 600 mm x 900 mm or aprox. 900 mm x 100 mm) and Tapes (from 4 mm wide) are also available.

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 and heat.

Stand September 2014

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Geschäftsführer: Heinz-Jürgen Siebert | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093
St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2008 | UL anerkannter Repacker E341377

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- Elektroisierstoffe
- Dichtungen
- Wärmeleitprodukte
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Properties	Norm	Unit	Value				
			0.13 ± 0.01	0.15 ± 0.01	0.17 ± 0.01	0.20 ± 0.01	0.22 ± 0.02
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 ²	144	162	182	217	252
Tensile Strength: Lengthwise Crosswise	IEC-626-2	N/mm ²	≥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 ± 0.02	0.30 ± 0.02	0.36 ± 0.03	0.42 ± 0.03	0.46 ± 0.03
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 ²	287	377	462	532	602
Tensile Strength: Lengthwise Crosswise	IEC-626-2	N/mm ²	≥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

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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