

Electrical Insulation Material

Flexiso[®] NMNM FI 14070

Composition: Flexiso[®] NMNM FI 14070 is a flexible four-layer material, which consists of two polyester films which are laminated with calendered aramid paper of a thickness of 50 microns. Flexiso[®] NMNM FI 14070 is used for applications up to 155°C.

Properties: Flexiso[®] NMNM FI 14070 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[®] NMNM FI 14070 also has a smooth surface and therefore it can also be processed into fully automated production lines.

Applications: Flexiso[®] NMNM FI 14070 is mainly used in electric motors as slot and phase insulation as well as slot closure. Flexiso[®] NMNM FI 14070 is also used in the transformer construction as core and layer insulation.

Delivery forms: Flexiso[®] NMNM FI 14070 is available on rolls (ca. 900 mm wide), sheets (ca. 600 x 900 mm or ca. 900 x 100 mm) and reels (from 6 mm width). Further formats, cuts, die-cut or formed parts are also available according to customer request.

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Storage conditions: Flexiso® NMNM FI 14070 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		
Nominal Thickness	IEC-626-2	mm %	0.25 ± 15	0.33 ± 15	0.39 ± 15
Film Thickness (1 st layer/2 nd layer)	IEC-626-2	µm	100/23	190/23	250/23
Basis Weight	IEC-626-2	g/m ²	260 ± 12%	360 ± 12%	460 ± 12%
Yield	IEC-626-2	m ² /kg	3.8	2.8	2.2
Tensile Strength					
Lengthwise	IEC-626-2	N/mm ²	≥210	≥300	≥330
Crosswise	IEC-626-2	N/mm ²	≥170	≥250	≥300
Elongation					
Lengthwise	IEC-626-2	N/10mm	≥15	≥20	≥20
Crosswise	IEC-626-2	N/10mm	≥20	≥25	≥25
Dielectric Strength	IEC-626-2	kV/mm	≥10	≥16	≥20
Shrinkage					
Lengthwise	IEC-626-2	%	≤1.5	≤2.0	≤2.0
Crosswise	IEC-626-2	%	≤1.5	≤2.0	≤2.0
Humidity content	IEC-626-2	%	≤ 4.1	≤ 2.8	≤ 2.1

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

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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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