

Electrical Insulation Materials

Flexiso[®] NTHN FI 15065

Structure: Flexiso[®] NTHN FI 15065 is a flexible three-layer material consisting of a Norton film which is laminated on both sides with calendered aramid paper. Flexiso[®] NTHN FI 15065 is used in applications up to 180 °C.

Characteristics: Flexiso[®] NTHN FI 15065 is an insulation material with excellent long-term thermal performance combined with very good mechanical properties such as tensile strength and high edge tear resistance and high electrical breakdown strength. In addition, Flexiso[®] NTHN FI 15065 has a smooth surface and therefore can also be processed into fully automated production lines.

Application: Flexiso[®] NTHN FI 15065 is primarily used as slot insulation in electrical engineering and as wedge for electrical motors with high thermal requirements. Furthermore Flexiso[®] NTHN FI 15065 is used in various fields of electrical engineering.

Delivery Forms: Flexiso[®] NTHN FI 15065 is supplied in rolls (width max. 900 mm) and as slit rolls (from 6 mm wide). Other formats, for example, blanks, die-cut and formed parts are supplied to customer specifications, also self-adhesive on request. Flexiso[®] NTHN FI 15065 is produced in Chamois as standard.

Dr. Dietrich Müller GmbH

Flexiso® NTHN FI 15065

Storage Conditions: Flexiso® NTHN FI 15065 has an unlimited shelf life under normal conditions (20° C, 50% r. H.). The material should be protected against moisture, dryness and direct sun and UV radiation exposure as well as any protected heat effects.

Properties	Test method	Unit	Value		
Total thickness	IEC 626-2	mm	0.20 ± 15%	0.30 ± 15%	0.38 ± 15%
Film thickness	IEC 626-2	µm	25	25	25
Nomex thickness	IEC 626-2	µm	80	130	180
Basis weight	IEC 626-2	g/m ²	190 ± 12%	290 ± 12%	410 ± 12%
Tensile strength:					
MD	IEC 626-2	N/mm ²	≥90	≥100	≥100
CMD	IEC 626-2		≥60	≥60	≥70
Elongation					
MD	IEC 626-2	%	≥20	≥20	≥15
CMD	IEC 626-2		≥20	≥20	≥15
Breakdown voltage	IEC 626-2	kV	≥8	≥9	≥9

Trademark information: Flexiso® is a registered trademark of Dr. Dietrich Müller GmbH, Germany.
 Norton® is a registered trademark of Saint-Gobain Performance Plastics.
 Nomex® is a registered trademark of DuPont.

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Information:

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