

Electrical Insulation Materials

Flexiso® NKN 411 FI 15080

Structure: Flexiso® NKN 411 FI 15080 is a flexible three-layer material consisting of a polyimide film which is laminated on both sides with uncalendered aramid paper. Flexiso® NKN 411 FI 15080 is used in applications up to 180 °C.

Characteristics: Flexiso® NKN 411 FI 15080 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® NKN 411 FI 15080 has a rough surface and therefore it also has a good impregnation for impregnating resins.

Application: Flexiso® NKN 411 FI 15080 is primarily used as slot insulation in electrical engineering and as slot closure and phase insulation for motors with high thermal requirements. Furthermore Flexiso® NKN 411 FI 15080 is used in various fields of electrical engineering.

Delivery Forms: Flexiso® NKN 411 FI 15080 is supplied in rolls (width max. 900 mm) and as reels (from 6 mm wide). Other formats, for example, blanks, die-cut and formed parts are supplied to customer specifications, also self-adhesive forms are available on request. Flexiso® NKN 411 FI 15080 is produced in Chamois as standard.

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Storage Conditions: Flexiso® NKN 411 FI 15080 has an unlimited shelf life under normal conditions (20° C, 50% rel. air humidity). The material should be protected against moisture, dryness and direct sun and UV radiation exposure as well as any heat effects.

Properties	Test method	Unit	Value	
Total thickness	IEC 626-2	mm	0.27 ± 0.02	0.33 ± 0.03
Film thickness	IEC 626-2	µm	25	75
Nomex thickness	IEC 626-2	µm	130	130
Basis weight	IEC 626-2	g/m ²	145 ± 12%	220 ± 12%
Tensile strength				
MD	IEC 626-2	N/mm ²	≥20	≥35
CD	IEC 626-2	N/mm ²	≥20	≥35
Elongation				
MD	IEC 626-2	%	≥7	≥3
CD	IEC 626-2	%	≥10	≥3
Breakdown voltage	IEC 626-2	kV	≥7	≥12

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

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Information:

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