

ISONOM[®] NKN 13 0887

Description:

ISONOM[®] NKN 13 0887 consists of Polyimide film, covered on both sides with calendered Nomex¹.

Properties:

ISONOM[®] NKN 13 0887 is a combined flexible material of thermal classification 180° C (H) with good mechanical properties like high tensile strength and high tear resistance combined with high electrical strength.

ISONOM[®] NKN 13 0887 has a smooth surface which allows a trouble free manufacture of low voltage motors where coil inserting machines are used.

Application:

ISONOM[®] NKN 13 0887 is mainly used as a slot liner, slot closure and phase insulation in thermal high stressed electrical motors. ISONOM[®] NKN is also used as interlayer insulation in transformers and other electrical machines and appliances.

Formats:

sheets width app. 920 mm, length on request
Rolls: width 920 mm untrimmed
Tapes: from 10 mm width upwards

Storability:

ISONOM[®] NKN 13 0887 can be stored unlimited under normal conditions (20°C, 50% r. h.).

Technical Data

ISONOM® NKN 13 0887						
Properties	Test method	Unit	Value	Value	Value	Value
Nominal thickness		mm	0.30	0.33	0.35	0.40
Tolerance	IEC 626	mm	± 0.03	± 0.03	± 0.04	± 0.04
Total substance	IEC 626	g/m ²	297	333	370	438
Nomex	IEC 626	µm	130	130	130	130
Polyimide film	IEC 626	µm	25	50	75	125
Nomex	IEC 626	µm	130	130	130	130
Breakdown voltage	IEC 626	kV	≥ 9	≥ 13	≥ 15	≥ 20
Breakdown voltage after folding	IEC 626	kV	≥ 8	≥ 12	≥ 14	≥ 18
Tensile strength MD TD	IEC 626	N/cm	≥ 270 ≥ 180	≥ 320 ≥ 210	≥ 390 ≥ 250	≥ 520 ≥ 320
Thermal classification	IEC 216 UL 1446	°C	180 200			

ISONOM[®] NKN 8 0886

Composition:

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Technical Data

ISONOM® NKN 8 0886						
Properties	Test method	Unit	Value	Value	Value	Value
Nominal thickness		mm	0.20	0.22	0.26	0.30
Tolerance	IEC 626	mm	± 0.02	± 0.02	± 0.02	± 0.03
Total substance	IEC 626	g/m ²	195	231	268	332
Nomex	IEC 626	µm	80	80	80	80
Polyimide film	IEC 626	µm	25	50	75	125
Nomex	IEC 626	µm	80	80	80	80
Breakdown voltage	IEC 626	kV	≥ 7	≥ 9	≥ 14	≥ 19
Breakdown voltage after folding	IEC 626	kV	≥ 7	≥ 9	≥ 14	≥ 19
Tensile strength MD TD	IEC 626	N/cm	≥ 160 ≥ 120	≥ 200 ≥ 180	≥ 250 ≥ 200	≥ 280 ≥ 220
Elongation MD TD	IEC 626	%	≥ 15			
Thermal Classification	IEC 216	°C	180			