ISONOM® KNK 3658

Composition
ISONOM® KNK 3658 consists of calendared Nomex[1] covered with Polyimide film (e.g. Kapton®) on both sides.

Application
ISONOM® KNK 3658 is mainly used as a slot liner, slot closure and phase insulation in thermal high stressed electrical motors.
ISONOM® KNK 3658 is also used as interlayer insulation in transformers and other electrical machines and appliances.

Properties
ISONOM® KNK 3658 is a combined flexible material of thermal classification 200° C (C) with good mechanical properties like high tensile strength and high tear resistance combined with high electrical strength.
ISONOM® KNK 3658 has a smooth surface which allows a trouble free manufacture of low voltage motors where coil inserting machines are used.

Formats

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

Storability
Originally packed, Isovolta warrants for ISONOM® KNK 3658 a shelf life for maximum 24 months if stored under normal conditions (RT, 50%. r. h.)

1 NOMEX is a registered trademark of DU PONT.

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Company No.: 80592 v | Commercial register: Wr. Neustadt | VAT: ATU 142 43 102 | DPR: 8028

ISONOM® KNK 3658

TECHNICAL DATA

Properties	Test method	Unit	Value*	Value*
Nominal thickness	IEC 60626	mm	5/3/5	5/5/5
Tolerance	IEC 60626	mm	0,34±0,03	0,40 ± 0,04
Total substance	IEC 60626	g/m²	450	488
Polyimide film		µm	125	125
Nomex ® Type 410/ 416		µm	80	130
Polyimide film		µm	125	125
Breakdown Voltage	IEC 60626	kV	≥ 20	≥ 20
Tensile Strength MD	IEC 60626	N/cm	≥160	≥160
Elongation MD	IEC 60626	%	≥5	≥5
Thermal classification	IEC 60216 UL 1446	°C	200 200	

* An enhancement of the values given can be done by statistical analysis of several productions.

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