CREATOR Project A1: Induction Motor

Slot liner, inter-phase, and end winding insulation Technical Specifications: **Trivoltherm**

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The subsequent data is referenced from [1]. This table is also provided as a .csv file in the same directory.

Technical data for TRIVOLTHERM® NK / Measured according to IEC 60626-2						
Properties	**Unit**	**2512**	**2516**	**2522**	**2530**	**2533**
Nominal thickness	mm	0.12	0.16	0.22	0.30	0.33
Tolerance	± %	15	15	15	15	15
Polyimide film thickness	µm	25	25	25	25	25
Thickness NOMEX®	µm	80	130	180	250	300
Grammage	g/m²	110	160	230	290	365
Tolerance	%	12	12	12	12	12
Area yield approx.	m²/kg	9.1	6.3	4.3	3.4	2.7
Tensile strength, MD	N/10 mm	≥ 90	≥ 120	≥ 160	≥ 200	≥ 210
Tensile strength, CMD	N/10 mm	≥ 60	≥ 80	≥ 100	≥ 120	≥ 160
Elongation, MD	%	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
Elongation, CMD	%	≥ 14	≥ 14	≥ 15	≥ 15	≥ 15
Breakdown voltage	kV	≥ 4	≥ 6	≥ 8	≥ 9	≥ 9

[1] “TRIVOLTHERM® NKN,” KREMPEL GROUP. [Online]. Available: https://kapman.org/wp-content/uploads/2018/09/TRIVOLTHERM_NKN_TRIVOLTHERM_NK_TDS_KREMPEL_EN_07_2017_2_26.pdf