Nomex® Polyimide Nomex®

Nomex® Polyimide Nomex® is a triple layered laminate with polyimide film sandwiched in between two layers of DuPont™ Nomex® aramid paper bonded with a high temperature adhesive system. The product is designed not to delaminate or blister at elevated temperatures.

This semi rigid laminate exhibits a high dielectric strength, as well as good initial tear and tensile strengths. The high abrasion properties allow the product to be inserted easily in the slot portions of a stator without damaging the insulation properties.

Application

These laminates find a popular use in the manufacture and repair of motors and generators of various ratings and temperature class. Popularly used as slot liners in stators, as wedges and phase insulation in motors and generators, as well as special H class motors.

Availability

These laminates are available in standard widths of 900mm in continuous rolls in various thickness and constructions. Slitted Tapes to specific sizes are also available upon request to facilitate auto slot insertion process in small stators.

Shelf Life

Nomex® Polyester Nomex® exhibits a shelf life of 12 months from date of manufacture when stored at 25°C temperature and 50% relative humidity.
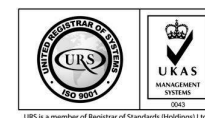
Item	Unit	Nomex Polyimide Nomex					
Thickness	mm	0.14	0.17	0.20	0.22	0.25	0.30
Substance	GSM	140	175	200	235	265	300
Construction		2-1-2	2-2-2	3-1-3	3-2-3	3-3-3	5-1-5
Tensile un folded (MD)	N/cm	140	160	160	200	200	270
Tensile un folded (XD)	N/cm	80	90	100	180	180	150
Tensile folded (MD)	N/cm	70	90	80	160	140	140
Tensile folded (XD)	N/cm	50	70	60	100	90	90
Elongation un folded (MD)	%	15	17	15	17	17	15
Elongation un folded (XD)	%	15	17	15	17	17	15
BDV un folded	kV	7	9	7	9	9	7
BDV folded	kV	6	8	6	8	8	6

Reference standard – IEC 6026-3: 2008 sheet no 330
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50 yrs of innovation