

CROYLAM NOMEX LAMINATE NMN

ABOUT THIS PRODUCT

NOMEX® Laminate type NMN is a triplex laminate constructed of calendered NOMEX® paper bonded to polyester film with proprietary high temperature adhesive system. This laminate is designed not to delaminate or blister at high temperatures.

The polyester film in this three-ply laminate contributes high dielectric strength, as well as good initial tear strength and tensile properties.

The calendered NOMEX® paper provides long-term thermal stability as well as improved propagation tear strengths.



FEATURES AND BENEFITS

- Flexible
- Good dielectric properties
- Good thermal properties
- Good thermal aging
- Good chemical resistance
- Compatible with varnishes and resins

APPLICATIONS

- Slot insulation
- Phase insulation
- Interlayer insulation
- Outer layer insulation

MATERIAL DATA

Operating Temperature	155°C
Thermal Class	F
Dielectric Strength	50 Kv/mm
Tensile Strength	450N/cm for 0.52mm thick

TECHNICAL DATA

	ASTM D374 Thickness Nominal	PRODUCT YIELD		ASTM D149 Dielectric Strength	ASTM D257 Volume Resistivity
Product	(inches)	(yd²/lb)	(lb/yd²)	(volts)	(ohms-cm)
NMN 2-2-2	0.007	3.08	0.32	11,000	10 ¹⁵
NMN 2-5-2	0.010	1.92	0.52	16,000	10 ¹⁵
NMN 2-7 ^{1/2} -2	0.012	1.49	0.67	18,000	10 ¹⁵
NMN 3-3-3	0.010	2.04	0.49	13,000	10 ¹⁵
NMN 3-5-3	0.012	1.64	0.61	17,000	10 ¹⁵
NMN 3-7 ^{1/2} -3	0.014	1.28	0.78	19,500	10 ¹⁵
NMN 3-10-3	0.017	1.03	0.97	21,000	10 ¹⁵
NMN 3-14-3	0.021	0.91	1.10	32,000	10 ¹⁵
NMN 5-3-5	0.013	1.52	0.66	16,000	10 ¹⁵
NMN 5-5-5	0.016	1.25	0.80	19,000	10 ¹⁵
NMN 5-10-5	0.021	0.89	1.12	22,000	10 ¹⁵

	ASTM D257 Surface Resistivity	ASTM D882 MD Tensile Strength	ASTM D882 XD Tensile Strength	ASTM D1004 MD Tear Strength	ASTM D1004 XD Tear Strength
Product	(ohms-square)	(lb/in width)	(lb/in width)	(lbs)	(lbs)
NMN 2-2-2	10 ¹⁵	95	70	9	7
NMN 2-5-2	10 ¹⁵	115	145	18	12
NMN 2-7 ^{1/2} -2	10 ¹⁵	200	180	25	20
NMN 3-3-3	10 ¹⁵	170	110	17	10
NMN 3-5-3	10 ¹⁵	175	150	26	18
NMN 3-7 ^{1/2} -3	10 ¹⁵	210	175	30	22
NMN 3-10-3	10 ¹⁵	250	210	33	27
NMN 3-14-3	10 ¹⁵	314	213	45	41
NMN 5-3-5	10 ¹⁵	185	145	24	16
NMN 5-5-5	10 ¹⁵	200	170	28	19
NMN 5-10-5	10 ¹⁵	275	235	35	31