



Von Roll USA, Inc.

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ACUFLEX NM® LAMINATES

Acuflex® Aramid paper/polyester film laminates are available with calendered and uncalendered papers and electrical grade polyester film bonded with Von Roll 's Thermal Bond proprietary high temperature adhesive system.

The polyester film contributes high dielectric strength, tear, tensile and burst strength. The Aramid paper in combination with Von Roll 's proprietary Thermal Bond high temperature adhesive provides long-term thermal stability.

APPLICATION

These laminates are suitable for use as slot, phase and end turn insulation as well as ground and wrapper insulation in dry tape transformers and a variety of punched and fabricated parts.

SHELF LIFE

Shelf life is in excess of one year when stored at room temperature.

PRODUCT DATA

Acuflex	ASTM D374	Product Yield		Dielectric Strength (volts) ASTM D149 (2.in.dia. electrodes)	Volume Resistivity (ohms/cms) ASTM D257	Surface Resistivity (ohms) ASTM D257	Tensile Strength (lb./in. of width) ASTM D882		ASTM D1004 Tear Strength Graves (lb.)
	Thickness Nominal (inches)	Sq. yd./lb.	Lbs.sq. yd.				MD	CMD	MD
NM 2-1	.003	5.88	.17	5,000	10 ¹⁵	10 ¹⁵	40	20	3
NM 2-2	.004	4.17	.24	8,500	10 ¹⁵	10 ¹⁵	60	30	5
NM 2-7.5	.009	1.72	.58	18,000	10 ¹⁵	10 ¹⁵	100	60	12
NM 2-10	.012	1.28	.78	20,500	10 ¹⁵	10 ¹⁵	122	84	16
NM 3-2	.005	3.44	.29	12,000	10 ¹⁵	10 ¹⁵	80	96	9
NM 3-3	.006	2.86	.35	13,000	10 ¹⁵	10 ¹⁵	90	100	12
NM 3-5	.008	2.13	.47	15,000	10 ¹⁵	10 ¹⁵	100	140	13
NM 3-7.5	.010	1.56	.63	18,500	10 ¹⁵	10 ¹⁵	110	150	14
NM 3-10	.013	1.25	.80	21,000	10 ¹⁵	10 ¹⁵	130	160	15
NM 5-2	.007	2.63	.38	13,000	10 ¹⁵	10 ¹⁵	124	80	15
NM 5-3	.008	2.27	.44	14,000	10 ¹⁵	10 ¹⁵	130	180	16
NM 5-5	.010	1.79	.56	15,000	10 ¹⁵	10 ¹⁵	184	140	18
NM 5-10	.015	1.12	.89	21,500	10 ¹⁵	10 ¹⁵	202	162	20
NM 5-14	.019	.87	1.15	25,000	10 ¹⁵	10 ¹⁵	222	184	23

Shelf Life

Shelf life is in excess of one year when stored in unopened containers at room temperature.

Available Forms

These products are available as 36-yard rolls of slit tape from 1/2 inch wide on 3-inch diameter cores; or as full width trimmed (36 inch) in 25, 50 and 100-yard rolls. Cut sheets, special core sizes and non-standard lengths are available on request.

Specifications

The properties shown are typical values only, and should not be used as the basis for preparing specifications. Contact Von Roll for assistance in preparation of specifications for your specific application.

Safety Precautions

Material Safety Data Sheets (MSDS) defining the known hazards and describing safety precautions appropriate for this product are available upon request, from Von Roll.

Availability

Acuflex® NM and NMN laminates are available from Von Roll or from your local authorized distributor. For the name of your distributor or for more information about these products contact Von Roll, 200 Von Roll Dr., Schenectady, New York, (518) 344-7100.

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