

Arlon Innovations 6110 Rittiman Road

210.798.1900 800.549.9860 San Antonio, TX 78218 arloninnovations.com

TECHNICAL DATA SHEET

416NMN 416 Nomex[®] / Mylar[®] / 416 Nomex[®]

A series of flexible composite insulations composed of type 416 Nomex® meta-aramid paper and electrical grade Mylar® polyester film laminated with a high temperature structural adhesive system.

PRODUCT ATTRIBUTES

- Excellent thermal stability and electrical properties
- High tear, tensile, and burst strength
- Excellent moisture and chemical resistance
- UL 1446 180°C recognized insulation system, file E60273

PRODUCT APPLICATIONS

- Slot and phase insulation for motors and generators
- Layer and ground insulation for Class H dry type transformers

CATALOG NUMBER	NOMINAL THICKNESS (in)	DIELECTRICH STRENGTH (V)	H (V) ASTM D828		TENSILE STRENGTH (psi) ASTM D828		GRAVE TEAR STRENGTH (lb) ASTM D1004	
	ASTM D374	ASTM D149	yd²/lb	lb/yd²	MD	XMD	MD	XMD
416XMX222	.006	11,000	3.08	0.32	95	70	9	7
416XMX252	.009	16,000	1.60	0.63	120	90	10	9
416XMX27H2	.012	18,000	1.49	0.67	200	180	25	20
416XMX333	.010	13,000	2.06	0.49	152	110	14	11
416XMX353	.012	17,000	1.62	0.62	170	130	16	14
416XMX37H3	.014	19,500	1.33	0.75	220	210	26	22
416XMX3103	.016	21,000	1.03	0.97	250	220	33	27
416XMX3143	.020	32,000	0.84	1.19	290	270	37	34
416XMX535	.014	16,000	1.47	0.68	220	158	23	16
416XMX555	.016	15,000	1.24	0.81	240	185	28	22
416XMX5105	.020	22,000	0.89	1.12	300	290	40	32

DIELECTRIC CONSTANT	DISSIPATION FACTOR	VOLUME RESISTIVITY	SURFACE RESISTIVITY
(23°C, 50% RH, 60 Hz)	(20°C, 50% RH, 60 Hz)	(23°C, 50% RH, Ohm - cm)	(23°C, 50% RH, Ohm)
ASTM D150	ASTM D150	ASTM 257-66	ASTM 257-66
3.2	0.005	1015	1015

Product performance will vary in each application and is dependent upon composite construction. Arlon Innovations does not guarantee the replication of this data by third parties. None of the data or statements contained herein is intended to warrant the performance of this product. Data is representative and not intended as a manufacturing specification.



Arlon Innovations 210.798.1900 6110 Rittiman Road 800.549.9860 San Antonio, TX 78218 arloninnovations.com

TECHNICAL DATA SHEET

STORAGE

- Shelf life: one (1) year
- Store in a clean area free from exposure to excessive heat, moisture or direct sunlight (50°F to 80°F).

Product performance will vary in each application and is dependent upon composite construction. Arlon Innovations does not guarantee the replication of this data by third parties. None of the data or statements contained herein is intended to warrant the performance of this product. Data is representative and not intended as a manufacturing specification.