

Material Data Sheet

Item: Dacron/Mylar/Dacron 70

Description: A flexible composite insulation composed of non-woven polyester fiber mat and polyester film, laminated with a high temperature polyester adhesive system, 70% filled with resin, providing a smooth varnish-like surface.

Features: UL 1446 155 C° and 180 C° recognized insulation systems, file E60273; MIL-I-22834 and MIL-E-917D (NAVY) certified; Excellent electrical properties and thermal stability; Retained flexibility; High tear, tensile and burst strengths; Excellent moisture and chemical resistance; Excellent chemical properties; Saturable with resins or varnishes; Cut-through resistance.

Applications:

- Phase insulation for random wound motors
- Armor tape and low voltage form wound and generator coils
- Layer and barrier insulation for dry-type transformers
- Slot insulations - motors and generators

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Typical Properties:

<u>Catalog Number</u>	<u>Nominal Thickness (IN.) ASTM 374</u>	<u>Yield</u>		<u>Dielectric Strength</u>
		<u>Sq. Yds. Per Lb.</u>	<u>Lbs. Per Sq. Yd.</u>	<u>(Volts) 21N Dia. Electrodes ASTM D149</u>
DMD 70222	0.006	3.65	0.28	7,000
DMD 70323	0.008	2.65	0.39	7,000
DMD 70333	0.009	2.33	0.43	9,500
DMD 70353	0.011	1.80	0.55	12,500

<u>Catalog Number</u>	<u>Dielectric Strength Lbs/in. Width ASTM D828</u>		<u>Tear Strength Graves (lbs) ASTM D1004</u>	
	<u>MD</u>	<u>CMD</u>	<u>MD</u>	<u>CMD</u>
	DMD 70222	60	60	4
DMD 70323	70	60	6	10
DMD 70333	90	90	8	13
DMD 70353	125	140	13	16

<u>Catalog Number</u>	<u>Dielectric Constant ASTM D150</u>	<u>Dissipation Factor ASTM D160</u>
	<u>23 C°, 60% RH, 60Hz</u>	<u>20 C°, 50% RH, 60HZ</u>
DMD 70222	2.7	.009
DMD 70323	2.2	.004
DMD 70333	2.5	.005
DMD 70353	2.6	.005

<u>Catalog Number</u>	<u>Volume Resistivity ASTM 257-66 (OHM-CM)</u>	<u>Surface Resistivity ASTM 257-66 OHMS</u>
	<u>23 C°, 50% RH</u>	
DMD 70222	10 ¹⁵	10 ¹³
DMD 70323	10 ¹⁵	10 ¹³
DMD 70333	10 ¹⁵	10 ¹³
DMD 70353	10 ¹⁵	10 ¹³

All of the information, suggestions, and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

Material Data Sheet

Item: Dacron/Mylar/Dacron 100

Description: A flexible composite insulation composed of non-woven polyester fiber mat and polyester film, laminated with a high temperature polyester adhesive system, 100% filled with resin, providing a smooth varnish-like surface.

Features: UL 1446 155 C° and 180 C° recognized insulation systems, file E60273; MIL-I-22834 and MIL-E-917D (NAVY) certified; Excellent moisture and chemical resistance; High tear, tensile and burst strengths; Excellent chemical properties; Thermal stability; Excellent cut-through, abrasion, puncture resistance; Excellent electrical properties; Excellent impulse voltage breakdown strength.

Applications:

- Slot insulation - motors and generators
- Phase insulation for random wound motors
- Excellent slot cell insulations for random and form wound rotating apparatus, manual or automatic insertion
- Layer and barrier insulation for dry-type transformers
- Thermal protection devices

Material Data Sheet

Item: Dacron/Mylar/Dacron 100

Typical Properties:

<u>Catalog Number</u>	<u>Nominal Thickness</u> <u>(IN.) ASTM 374</u>	<u>Yield</u>		<u>Dielectric</u> <u>Strength</u>
		<u>Sq. Yds.</u> <u>Per Lb.</u>	<u>Lbs. Per</u> <u>Sq. Yd.</u>	<u>(Volts) 21N</u> <u>Dia. Electrodes</u> <u>ASTM D149</u>
DMD 100222	0.006	3.50	0.28	7,500
DMD 100333	0.009	2.20	0.46	8,500
DMD 100353	0.011	1.65	0.61	12,000
DMD 10037H3	0.014	1.20	1.20	15,000
DMD 1003103	0.016	1.04	0.96	18,000
DMD 1003143	0.020	0.86	1.16	19,600
DMD 100535	0.013	1.56	0.64	9,300
DMD 100555	0.015	1.30	0.7	12,500
DMD 1005105	0.020	0.90	1.12	17,600
DMD 1005145	0.024	0.73	1.38	25,500

<u>Catalog Number</u>	<u>Dielectric Strength</u>		<u>Tear Strength</u>	
	<u>Lbs/in. Width</u>		<u>Graves (lbs)</u>	
	<u>ASTM D828</u>		<u>ASTM D1004</u>	
	<u>MD</u>	<u>CMD</u>	<u>MD</u>	<u>CMD</u>
DMD 100222	80	70	5	8
DMD 100333	120	94	9	12
DMD 100353	160	127	13	18
DMD 10037H3	190	180	20	25
DMD 1003103	250	240	29	34
DMD 1003143	310	300	38	42
DMD 100535	160	103	9	10
DMD 100555	190	140	15	22
DMD 1005105	270	220	30	40
DMD 1005145	290	270	40	46

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Material Data Sheet

Item: Dacron/Mylar/Dacron 100

Typical Properties:

<u>Catalog Number</u>	<u>Dielectric Constant</u> <u>ASTM D150</u> <u>23 C°, 60% RH, 60Hz</u>	<u>Dissipation Factor</u> <u>ASTM D160</u> <u>20 C°, 50% RH, 60HZ</u>
DMD 100222	3.68	0.116
DMD 100333	3.68	0.116
DMD 100353	3.68	0.116
DMD 10037H3	3.68	0.116
DMD 1003103	3.68	0.116
DMD 1003143	3.68	0.116
DMD 100535	3.68	0.116
DMD 100555	3.68	0.116
DMD 1005105	3.68	0.116
DMD 1005145	3.68	0.116

<u>Catalog Number</u>	<u>Volume Resistivity</u> <u>ASTM 257-66</u> <u>(OHM-CM)</u> <u>23 C°, 50% RH</u>	<u>Surface Resistivity</u> <u>ASTM 257-66</u> <u>OHMS</u>
DMD 100222	10 ¹⁶	10 ¹³
DMD 100333	10 ¹⁶	10 ¹³
DMD 100353	10 ¹⁶	10 ¹³
DMD 10037H3	10 ¹⁶	10 ¹³
DMD 1003103	10 ¹⁶	10 ¹³
DMD 1003143	10 ¹⁶	10 ¹³
DMD 100535	10 ¹⁶	10 ¹³
DMD 100555	10 ¹⁶	10 ¹³
DMD 1005105	10 ¹⁶	10 ¹³
DMD 1005145	10 ¹⁶	10 ¹³

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