



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Dacron/Mylar/Dacron70

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 1446155C and 180C 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 resin varnishes; cut-through resistance.

Applications:

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

Key Characteristics:	Units - English (SI)	DMD 70222	DMD 70323	DMD 70333	DMD 70353
Nominal Thickness	In. (mm.)	0.006 (0.152)	0.008 (0.203)	0.009 (0.229)	0.011 (0.279)
Dielectric Strength	Volts	7,000	7,000	9,500	12,500
Tensile Strength					
MD	Lbs/in. Width	60	70	90	125
CMD	Lbs/in. Width	60	60	90	140
Graves Tear Strength					
MD	Pounds	4	6	8	13
CMD	Pounds	6	10	13	16
Dielectric Constant	23C°, 60%RH, 60Hz	2.7	2.2	2.5	2.6
Dissipation Factor	20C°, 50%RH, 60Hz	0.009	0.004	0.005	0.005
Volume Resistivity	23C°, 50%RH Ohm-cm.	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵
Surface Resistivity	Ohms	10 ¹³	10 ¹³	10 ¹³	10 ¹³

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