



MANUFACTURERS OF  
**ELECTRICAL INSULATION MATERIALS**  
 INSULATING COMPONENTS FOR  
**POWER SYSTEMS EQUIPMENT**

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## 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
- Layer and barrier insulation for dry-type transformers—Thermal protection devices
- Excellent slot cell insulations for random and form wound rotating apparatus, manual or automatic in section

Key Characteristics:	Units - English (SI)	DMD 100222	DMD 100333	DMD 100353	DMD 100535	DMD 100555	DMD 1005105	DMD 1005145
Nominal Thickness	In. (mm.)	0.006 (0.152)	0.009 (0.229)	0.011 (0.279)	0.013 (0.330)	0.015 (0.381)	0.020 (0.508)	0.024 (0.610)
Tensile Strength: MD	Lbs per in. width	80	120	160	160	190	270	290
CMD	Lbs per in. width	70	94	127	103	140	220	270
Dielectric Strength	Volts	7,500	8,500	12,000	9,300	12,500	17,600	25,500
Graves Tear Strength: MD	Pounds	5	9	13	9	15	30	40
CMD	Pounds	8	12	18	10	22	40	46
Dielectric Constant	23°C, 50% RH 60Hz	3.68	3.68	3.68	3.68	3.68	3.68	3.68
Dissipation Factor	20°C, 50% RH 60Hz	0.116	0.116	0.116	0.116	0.116	0.116	0.116
Volume Resistivity	23°C, 50% RH Ohm-cm.	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>
Surface Resistivity	Ohms	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>

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