THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

DMD 70 & 100

Item:	Dacron/Mylar/Dacron (70 & 100)
Description:	Dacron/Mylar/Dacron (DMD) is a series of flexible composites of non-woven polyester mat and electrical grade polyester film, laminated with a high temperature polyester adhesive system. DMD 70 is 70% filled with resin and has a porous, fibrous surface. DMD 100 is 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 & MIL-E-917 D (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, and cut-through resistant.
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 - Thermal protection devices

Dacron/Mylar/Dacron 70

Key Characteristics		Units - English (SI)	70222	70323	70333	70353
Nominal Thickness		in (mm)	0.006 (0.152)	0.008 (0.203)	0.009 (0.229)	0.011 (0.279)
Dielectric Strength		Volts	7,300	7,500	9,500	12,500
Tensile Strength	**MD**	lbs/in	60	70	90	140
	CMD		60	60	90	125
Graves Tear Strength	**MD**	lbs	6	10	13	16
	CMD		4	6	8	13
Dielectric Constant, 60 Hz		--	2.7	2.2	2.5	2.6
Dissipation Factor, 60 Hz		--	0.009	0.004	0.005	0.005
Volume Resistivity		Ohms-cm	10^{15}	10^{15}	10^{15}	10^{15}
Surface Resistivity		Ohms	10^{13}	10^{13}	10^{13}	10^{13}

Dacron/Mylar/Dacron 100

Key Characteristics		Units	100222	100353	10037H3	1003103	1003143	100555	1005145
Nominal Thickness		in (mm)	0.006 (0.152)	0.011 (0.279)	0.014 (0.355)	0.016 (0.406)	0.020 (0.508)	0.015 (0.381)	0.024 (0.609)
Dielectric Strength		Volts	7,500	12,000	15,000	18,000	19,600	12,500	25,500
Tensile Strength	**MD**	lbs/in	80	160	190	250	310	190	290
	CMD		70	127	180	240	300	140	270
Graves Tear Strength	**MD**	lbs	8	18	25	34	42	22	16
	CMD		5	13	20	29	38	15	40
Dielectric Constant, 60 Hz		--	3.68	3.68	3.68	3.68	3.68	3.68	3.68
Dissipation Factor, 60 Hz		--	0.0116	0.0116	0.0116	0.0116	0.0116	0.0116	0.0116
Volume Resistivity		Ohms-cm	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}
Surface Resistivity		Ohms	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}