



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

DM 70 & 100 Dacron/Mylar/Dacron (70 & 100)

Dacron/Mylar/Dacron (DMD) is a series of flexible composites made from a non-woven polyester mat and electrical-grade polyester film, laminated with a high-temperature polyester adhesive system.

DMD 70 contains 70% resin, resulting in a porous, fibrous surface, while DMD 100 is 100% resin-filled, providing a smooth, varnish-like surface. Both types exhibit excellent electrical properties and thermal stability, retaining flexibility along with high tear, tensile, and burst strengths. These materials also offer outstanding moisture and chemical resistance, possess excellent chemical properties, can be saturated with resins or varnishes, and are resistant to cut-through.

COMMON APPLICATIONS: PHASE INSULATION FOR RANDOM WOUND MOTORS | SLOT CELL INSULATION | LAYER AND BARRIER INSULATION FOR DRY-TYPE TRANSFORMERS | THERMAL PROTECTION DEVICES

STANDARDS: UL 1446 (155°C AND 180°C) RECOGNIZED INSULATION SYSTEMS, FILE E60273 | MIL-I-22834 & MIL-E-917 D (NAVY) CERTIFIED

The Gund Company fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. The standard color is white. Custom colors are available upon request.

		DACRON/MYLAR/DACRON 70				DACRON/MYLAR/DACRON 100							
PROPERTIES	Units (SI)	70222	70323	70333	70353	100222	100353	10037H3	1003103	1003143	100555	1005145	
PHYSICAL	Nominal Thickness	in	0.006	0.008	0.009	0.011	0.006	0.011	0.014	0.016	0.020	0.015	0.024
		(mm)	(0.152)	(0.203)	(0.229)	(0.279)	(0.152)	(0.279)	(0.355)	(0.406)	(0.508)	(0.381)	(0.609)
MECHANICAL	Tensile Strength: MD	lbs/in	60	70	90	140	80	160	190	250	310	190	290
	Tensile Strength: CMD	lbs/in	60	60	90	125	70	127	180	240	300	140	270
	Graves Tear Strength: MD	lbs	6	10	13	16	8	18	25	34	42	22	16
	Graves Tear Strength: CMD	lbs	4	6	8	13	5	13	20	29	38	15	40
ELECTRICAL	Dielectric Strength	Volts	7,300	7,500	9,500	12,500	7,500	12,000	15,000	18,000	19,600	12,500	25,500
	Dielectric Constant: 60 Hz		2.7	2.2	2.5	2.6	3.68	3.68	3.68	3.68	3.68	3.68	3.68
	Dissipation Factor: 60 Hz		0.009	0.004	0.005	0.005	0.0116	0.0116	0.0116	0.0116	0.0116	0.0116	0.0116
	Volume Resistivity	Ohms-cm	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵	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	10 ¹³	10 ¹³	10 ¹³	10 ¹³

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, 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, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.



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MARKETS



Switchgear



Electronics



Power Generators



Motor Applications



Transformers



Metals Processing



Electric Vehicles



Military/Aerospace



Oil & Gas



Medical



Space

OUR EXPERTISE IS YOUR COMPETITIVE ADVANTAGE

We manufacture and fabricate a complete line of components for market-specific applications (left column). As TGC better understands these markets – we can expand into other applications for our products.

As an employer, we are one family, acting in accordance with our Core Values: respect, trust, growth, passion, connection, teamwork, integrity, and performance. Collectively, we recognize and serve others so that lives are transformed!

Material Families:

- Thermoset Rigid Laminates & Composites
- Flexible Laminates, Papers, Films & Felts
- Thermoplastic Materials
- Elastomeric Materials



Engineering Capabilities:

- Custom Material Development
- Resin Formulation
- Laboratory Testing
- Comparative Materials Evaluation

Conversion Capabilities:

- Die, Laser & Knife Cutting
- Waterjet Cutting
- Rotary Die Cutting
- Slitting
- Thermoforming

Manufacturing Capabilities:

- Compression Molding
- Autoclave & Light RTM Molding
- Pultrusion / Extrusion of Rods & Shapes
- Filament, Convolute & Wet Winding Tubes
- Additive & Injection Molding
- Infusion & B-Stage Composites Lay-Up
- Hand Lay-Up & Spray-Up Molding

Fabrication Capabilities:

- 5-Axis Machining
- CNC Milling
- Routing
- Turning & Lathe Cutting
- Punching
- Bending

THE GUND COMPANY GLOBAL FOOTPRINT

