



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Dacron/Mylar/Dacron 70, 100

Description: A flexible composite insultaion 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 electrical properties and thermal stability, retained flexibility, high tear, tensile, and burst strengths as well. 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 insulations 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

Dacron/Mylar/Dacron 70

Key Characteristics	Units	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	7,000	7,000	9,500	12,500
Tensile Strength, MD	lbs./in.	60	70	90	125
CMD		60	60	90	140
Graves Tear Strength, MD	lbs.	4	6	8	13
CMD		6	10	13	16
Dielectric Constant, 60Hz	--	2.7	2.2	2.5	2.6
Dissipation Factor, 60Hz	--	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	0.011	0.014	0.016	0.020	0.015	0.024
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.	5	13	20	29	28	15	40
CMD		8	18	25	34	42	22	46
Dielectric Constant, 60Hz	--	3.68	3.68	3.68	3.68	3.68	3.68	3.68
Dissipation Factor, 60Hz	--	0.116	0.116	0.116	0.116	0.116	0.116	0.116
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

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