

Flexible Insulation

DMD - Polyester Mat/Polyester Film/Polyester Mat.

GENERAL

Triple layer, polyester mat/polyester film, laminates are constructed of high density polyester mat and electrical grade polyester film bonded by a special bonding system designed to prevent delamination.

APPLICATIONS

The laminate is suitable for use in fractional to the largest rotating electrical equipment as slot, phase and end turn insulation.

It can also act as ground and wrapper insulation in dry type transformers as well as in a variety of punched and fabricated parts.

THERMAL PROPERTIES

These laminates meet the requirements of MIL-1-22834 and MIL-1-91 7D and have both Class B (130°C) and Class F (155°C) Underwriters Laboratories recognition for motors, transformers and coil assemblies.

The DMD, Polyester Mat/Polyester Film Polyester Mat laminates meet the requirements for Hermetic systems.

The polyester film contributes high dielectric strength, tear, tensile, and burst strengths. The high density polyester mat in combination with the special bonding system adhesive and top coating provides exceptional heat stability.

PROPERTIES

Product Type	Thickness (mm) A.S.T.M. 0374	Product Yield.		Dielectric Strength (volts) A.S.T.M. 0149	Volume resistivity (ohms/cm) ASTM 0257	Surface resistivity (ohms) ASTM 0257	Tensile Strength (kg/mm. of width) ASTM 0882		Tear strength Graves (kg). ASTM 01004	
		M ² / kG	kG / M ²				M.D	C.M.D.	M.D	C.M.D.
DMD 3-1-3	0.178	8.76	0.11	4 500	10 ¹⁵	10 ¹³	1.521	0.984	4.091	3.636
DMD 2-2-2	0.152	8.76	0.11	8 000	10 ¹⁵	10 ¹³	2.004	1.253	4.545	2.727
DMD 3-3-3	0.229	5.71	0.17	9 000	10 ¹⁵	10 ¹³	1.825	1.879	5.000	4.545
DMD 3-5-3	0.279	4.39	0.23	12 500	10 ¹⁵	10 ¹³	2.684	2.72	7.727	5.909
DMD 2-7.5-2	0.279	4.00	0.25	15 000	10 ¹⁵	10 ¹³	3.203	4.026	10.909	9.091
DMD 3-7.5-3	0.330	3.42	0.29	15 000	10 ¹⁵	10 ¹³	3.168	4.241	12.273	9.545
DMD 5-5-5	0.381	3.42	0.29	15 000	10 ¹⁵	10 ¹³	2.631	2.845	12.727	7.727
DMD 3-10-3	0.406	2.84	0.35	20 000	10 ¹⁵	10 ¹³	4.026	4.026	12.727	13.182
DMD 5-10-5	0.508	2.63	0.38	18 000	10 ¹⁵	10 ¹³	4.026	4.975	16.364	13.636
DMD 3-14-3	0.508	2.21	0.45	22 000	10 ¹⁵	10 ¹³	4.474	6.21	17.727	16.364
DMD 5-14-5	0.610	2.05	0.49	24 500	10 ¹⁵	10 ¹³	5.190	4.832	18.636	17.727