

3M™ DMD180 5-10-5

Triplex High Performance Flexible Laminate

Data Sheet

November 2013

3M DMD180 High Performance Flexible Laminate is a specially formulated non-woven material (D) laminated to both sides of a polyester (PET) film (M). DMD180 laminate is qualified for use as major ground insulation in electrical insulation systems rated through Class 180(H) per UL 1446 and IEC Std. 61857. It is suitable for applications including slot cell and wedge insulation in motors. DMD180 laminate also is well-suited for automatic insertion applications, as well as heavy-duty winding applications. 3M UL Recognized Insulation Systems may be found in File No. 65007.

		ASTM Test Method	Typical Values
Nominal Thickness	mm mil	D-645	0.51 20
Basis Weight	g/m ² lb/yd ²	D-202	635 1.17
Tensile Strength, MD	lb/inch N/cm	D-828	212 371
Tensile Strength, CD	lb/inch N/cm	D-828	306 536
Elongation to Break, MD	%	D-828	29
Elongation to Break, CD	%	D-828	107
Elmendorf Tear, MD	g N	D-689	1300 12.7
Elmendorf Tear, CD	g N	D-689	3050 29.9
Dielectric Breakdown Voltage	kV	D-149	22
Moisture Absorption	%	D-689	<1

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