

3M™ DMD180 5-3-5

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	0.33 13
Basis Weight	g/m ² lb/yd ²	D-202	381 0.70
Tensile Strength, MD	lb/inch N/cm	D-828	100 175
Tensile Strength, CD	lb/inch N/cm	D-828	100 175
Elongation to Break, MD	%	D-828	17
Elongation to Break, CD	%	D-828	76
Elmendorf Tear, MD	g N	D-689	955 9.4
Elmendorf Tear, CD	g N	D-689	2550 25.0
Dielectric Breakdown Voltage	kV	D-149	11
Moisture Absorption	%	D-689	<1

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