

# 3M™ DMD180 3-5-3

## 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	0.28 11
Basis Weight	g/m <sup>2</sup> lb/yd <sup>2</sup>	D-202	370 0.68
Tensile Strength, MD	lb/inch N/cm	D-828	128 224
Tensile Strength, CD	lb/inch N/cm	D-828	157 275
Elongation to Break, MD	%	D-828	30
Elongation to Break, CD	%	D-828	90
Elmendorf Tear, MD	g N	D-689	505 4.9
Elmendorf Tear, CD	g N	D-689	1260 12.3
Dielectric Breakdown Voltage	kV	D-149	15
Moisture Absorption	%	D-689	<1

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78-8141-6176-2 Rev A

