## 3M<sup>TM</sup> DMD180 3-14-3

## Triplex Electrical Insulating Paper

Data Sheet June 2013

3M<sup>TM</sup> DMD180 is a specially formulated non-woven material (D) laminated to both sides of a polyester (PET) film (M). DMD180 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 is well-suited for automatic insertion applications, as well as heavy-duty winding applications. 3M Innovative Paper Technologies UL Recognized Insulation Systems may be found in File No. 65007.

		ASTM Test Method	Typical Values
Nominal Thickness	mm	D-645	0.51
Basis Weight	mil g/m² lb/yd²	D-202	20 680 1.25
Tensile Strength, MD	lb/inch N/cm	D-828	260 455
Tensile Strength, CD	lb/inch N/cm	D-828	332 581
Elongation to Break, MD	%	D-828	40
Elongation to Break, CD	%	D-828	158
Elmendorf Tear, MD	g N	D-689	860 8.4
Elmendorf Tear, CD	g N	D-689	1865 18.3
Dielectric Breakdown Voltage	kV	D-149	30
Moisture Absorption	%	D-689	<1

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