

3M™ DMD180 3-7.5-3

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	D-645	0.34
	mil		13.5
Basis Weight	g/m ²	D-202	461
	lb/yd ²		0.85
Tensile Strength, MD	lb/inch	D-828	161
	N/cm		282
Tensile Strength, CD	lb/inch	D-828	206
	N/cm		361
Elongation to Break, MD	%	D-828	30
Elongation to Break, CD	%	D-828	92
Elmendorf Tear, MD	g	D-689	605
	N		5.9
Elmendorf Tear, CD	g	D-689	1430
	N		14.0
Dielectric Breakdown Voltage	kV	D-149	18
Moisture Absorption	%	D-689	<1

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