

3M™ DMD180 5-14-5

Triplex Electrical Insulating Paper

Data Sheet

January 2013

3M™ DMD180 Flexible Laminate is a specially formulated nonwoven material (D) laminated on both sides of a polyester (PET) film (M). The special nonwoven layer helps to protect the film from tearing and provides abrasion resistance. The film provides dielectric performance and formability. It is a unique insulation material for use in integral horse power motors, and is suitable for use as slot liner, wedge and phase insulation. For insulation systems rated through Class 180(H) per UL 1446 and IEC Std. 61857.

		ASTM Test Method	DMD180 5-14-5
Nominal Thickness	mm mil	D-645	0.61 24
Basis Weight	g/m ² lb/yd ²	D-202	781 1.44
Tensile Strength, MD	lb/inch N/cm	D-828	275 481
Tensile Strength, CD	lb/inch N/cm	D-828	321 562
Elongation to Break, MD	%	D-828	31
Elongation to Break, CD	%	D-828	152
Elmendorf Tear, MD	g N	D-689	1500 14.7
Elmendorf Tear, CD	g N	D-689	3340 32.7
Dielectric Breakdown Voltage	kV	D-149	30

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

3M is a trademark of 3M Company.



Electrical Markets Division
1 Paper Trail
Tilton, NH 03276-5250
866.357.2737
FAX: 603.286.4859
www.3M.com/flexibleinsulation

Please recycle
© 3M 2013 All rights reserved
78-8141-5858-6 Rev A

