

# 3M™ TufQUIN TFT 3-10-3 Triplex Electrical Insulation Paper

Data Sheet

August 2012

3M™TufQUIN TFT Triplex Electrical Insulation Paper is TufQUIN Hybrid Insulating Paper bonded to both sides of polyester (PET) film. TufQUIN TFT Paper is qualified for use as major ground insulation in electrical insulation systems rated through Class 200(N) per UL 1446 and IEC Std. 61857. It is suitable for applications including slot cell, phase, and wedge insulation in motors and generators as well as ground and layer insulation in dry-type transformers. TufQUIN TFT laminates are well-suited for automatic insertion applications, as well as heavy-duty winding applications. 3M Innovative Paper Technologies UL Recognized Insulation Systems (File No. 65007) may be found on UL's Electrical Insulation Systems Database at <http://www.ul.com/eis>.

		ASTM Test Method	TufQUIN TFT 3-10-3
Nominal Thickness	mm mil	D-645	0.41 16
Basis Weight	g/m <sup>2</sup> lb/yd <sup>2</sup>	D-202	551 1.02
Tensile Strength, MD	lb/inch N/cm	D-828	201 352
Tensile Strength, CD	lb/inch N/cm	D-828	276 483
Tensile Elongation, MD	%	D-828	30
Tensile Elongation, CD	%	D-828	97
Elmendorf Tear, MD	g N	D-689	705 6.9
Elmendorf Tear, CD	g N	D-689	1595 15.6
Dielectric Breakdown Voltage	kV	D-149	22

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

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