

3M™ TufQUIN TFT 5-7.5-5 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 5-7.5-5
Nominal Thickness	mm mil	D-645	0.44 17.5
Basis Weight	g/m ² lb/yd ²	D-202	578 1.07
Tensile Strength, MD	lb/inch N/cm	D-828	165 289
Tensile Strength, CD	lb/inch N/cm	D-828	200 350
Tensile Elongation, MD	%	D-828	18
Tensile Elongation, CD	%	D-828	129
Elmendorf Tear, MD	g N	D-689	1180 11.6
Elmendorf Tear, CD	g N	D-689	2870 28.1
Dielectric Breakdown Voltage	kV	D-149	18

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