

3M™ TufQUIN TFT 2.5-2-2.5

Triplex Electrical Insulation Paper

Data Sheet

April 2013

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 may be found under UL File E65007.

		ASTM Test Method	TufQUIN TFT 2.5-2-2.5
Nominal Thickness	mm mil	D-645	0.18 7
Basis Weight	g/m ² lb/yd ²	D-202	229 0.42
Tensile Strength, MD	lb/inch N/cm	D-828	80 140
Tensile Strength, CD	lb/inch N/cm	D-828	75 131
Tensile Elongation, MD	%	D-828	26
Tensile Elongation, CD	%	D-828	83
Elmendorf Tear, MD	g N	D-689	240 2.4
Elmendorf Tear, CD	g N	D-689	580 5.7
Dielectric Breakdown Voltage	kV	D-149	9.5

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