3MTM TufQUIN TFT 5-14-5

Triplex Electrical Insulation Paper

Data Sheet August 2012

3MTMTufQUIN 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 5-14-5
Nominal	mm	D-645	0.61
Thickness	mil		24
Basis Weight	g/m² lb/yd²	D-202	799 1.47
Tensile	lb/inch	D-828	275
Strength, MD	N/cm		481
Tensile	lb/inch	D-828	321
Strength, CD	N/cm		562
Tensile Elongation, MD	%	D-828	31
Tensile Elongation, CD	%	D-828	152
Elmendorf	9	D-689	1500
Tear, MD	N		14.7
Elmendorf	g	D-689	3340
Tear, CD	N		32.7
Dielectric Breakdown Voltage	kV	D-149	30

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