3MTM TufQUIN TFT 5-10-5 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 5-10-5
Nominal	mm	D-645	0.51
Thickness	mil		20
Basis Weight	g/m² Ib/yd²	D-202	659 1.22
Tensile	lb/inch	D-828	212
Strength, MD	N/cm		371
Tensile	lb/inch	D-828	306
Strength, CD	N/cm		536
Tensile Elongation, MD	%	D-828	29
Tensile Elongation, CD	%	D-828	107
Elmendorf	g	D-689	1300
Tear, MD	N		12.7
Elmendorf	g	D-689	3050
Tear, CD	N		29.9
Dielectric Breakdown Voltage	kV	D-149	22

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