

3M™ TufQUIN 110 5 mil

Electrical Insulating Paper

Data Sheet

November 2013

TufQUIN 110 Electrical Insulating Paper is a hybrid inorganic-organic paper for high-temperature electrical insulating applications. TufQUIN 110 paper is qualified for use in electrical insulation systems rated through Class 200(N) per UL 1446 and IEC Std. 61857. TufQUIN papers are flexible, conformable papers with high tensile strength, excellent tear resistance, and low moisture absorption. TufQUIN papers are compatible with commonly used varnishes and resins and are easily impregnated, further enhancing thermal conductivity and coil-bonding characteristics. 3M UL Recognized Insulation Systems may be found in UL File 65007.

		ASTM Test Method	TufQUIN 110 5 mil
Nominal Thickness	mm mil	D-645	0.13 5
Basis Weight	g/m ² lb/yd ²	D-202	148 0.273
Tensile Strength, MD	lb/inch N/cm	D-828	27 47
Tensile Strength, CD	lb/inch N/cm	D-828	13 23
Tensile Elongation, MD	%	D-828	19
Tensile Elongation, CD	%	D-828	11
Elmendorf Tear, MD	g N	D-689	255 2.5
Elmendorf Tear, CD	g N	D-689	525 5.1
Dielectric Breakdown Voltage	kV	D-149	0.9

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78-8141-6330-5 Rev A

