

# 3M™ TufQUIN 110 3 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 impregnating 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 3 mil
Nominal Thickness	mm mil	D-645	0.08 3
Basis Weight	g/m <sup>2</sup> lb/yd <sup>2</sup>	D-202	94 0.173
Tensile Strength, MD	lb/inch N/cm	D-828	20 35
Tensile Strength, CD	lb/inch N/cm	D-828	8 14
Tensile Elongation, MD	%	D-828	15
Tensile Elongation, CD	%	D-828	10
Elmendorf Tear, MD	g N	D-689	85 0.8
Elmendorf Tear, CD	g N	D-689	200 2.0
Dielectric Breakdown Voltage	kV	D-149	0.7

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Electrical Markets Division  
6801 River Place Blvd.  
Austin, Texas 78726-9000  
855 293 6018  
FAX 800 828 9329  
www.3M.com/flexibleinsulation

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