## 3M<sup>™</sup> ThermaVolt AR 10 mil Electrical Insulating Paper

## **Data Sheet**

## January 2014

ThermaVolt AR Electrical Insulating Paper is an electrical insulation for motors, generators and transformers. ThermaVolt AR exhibits good mechanical properties, specifically tensile and tear strength. High inorganic content helps to maintain long-term temperature stability. ThermaVolt AR paper is qualified for use as major ground insulation in electrical insulation systems rated through Class 220(R) per UL 1446 and IEC Std. 61857. Applications include ground and layer insulation in dry-type transformers, as well spiral-wound core tubes and interwinding insulation in strip-wound coils and electromagnet coils. 3M UL Recognized Insulation Systems may be found under UL File E65007.

		ASTM Test Method	ThermaVolt AR 10 mil
Nominal	mm	D-645	0.25
Thickness	mil		10
Basis Weight	g/m² Ib/yd²	D-202	326 0.60
Tensile	lb/inch	D-828	98
Strength, MD	N/cm		172
Tensile	lb/inch	D-828	36
Strength, CD	N/cm		63
Tensile Elongation, MD	%	D-828	2.5
Tensile Elongation, CD	%	D-828	2.0
Elmendorf	g	D-689	537
Tear, MD	N		5.3
Elmendorf	g	D-689	1448
Tear, CD	N		14.2
Dielectric Breakdown Voltage	kV	D-149	3.8

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