

3M™ TufQUIN TFT 3-3-3 Triplex Electrical Insulation Paper

Data Sheet

August 2012

3M™ TufQUIN 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 3-3-3 |
|------------------------------|--|------------------|-------------------|
| Nominal Thickness | mm mil | D-645 | 0.23 9 |
| Basis Weight | g/m ² lb/yd ² | D-202 | 306 0.56 |
| Tensile Strength, MD | lb/inch N/cm | D-828 | 96 168 |
| Tensile Strength, CD | lb/inch N/cm | D-828 | 106 186 |
| Tensile Elongation, MD | % | D-828 | 28 |
| Tensile Elongation, CD | % | D-828 | 98 |
| Elmendorf Tear, MD | g N | D-689 | 465 4.6 |
| Elmendorf Tear, CD | g N | D-689 | 1190 11.7 |
| Dielectric Breakdown Voltage | kV | D-149 | 11 |

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