

Electrical insulation material

3M™ TufQUIN 110 | FI 15110

Description: 3M™ TufQUIN 110 | FI 15110 is a hybrid inorganic-organic paper.

Properties: 3M™ TufQUIN 110 | FI 15110 is a flexible and conformable paper with high tensile strength, excellent tear resistance and low moisture absorption. 3M™ TufQUIN 110 | FI 15110 can be easily impregnated with commonly used impregnating varnishes and resins to enhance thermal conductivity and coil-bonding characteristics.

Application: 3M™ TufQUIN 110 | FI 15110 is used for motors and generators and well as dry type transformers and high temperature electrical insulating applications.

Delivery forms: 3M™ TufQUIN 110 | FI 15110 can be delivered on roll or tape, as customized cut or die cut part. Other delivery forms upon customers request.

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| Properties | Test method | Unit | Value | | | | |
|---------------------------------|-------------|------------------|-------|------|------|------|------|
| | | | 0,05 | 0,06 | 0,08 | 0,13 | 0,25 |
| Nominal thickness | D-645 | mm | 0,05 | 0,06 | 0,08 | 0,13 | 0,25 |
| Basis weight | D-202 | g/m ² | 54 | 71 | 87 | 141 | 282 |
| Density | | g/cc | 1,07 | 1,10 | 1,14 | 1,11 | 1,11 |
| Tensile strength, lengthwise | D-828 | N/cm | 21 | 26 | 35 | 47 | 88 |
| Tensile strength, crosswise | D-828 | N/cm | 9 | 12 | 14 | 23 | 42 |
| Elongation, lengthwise | D-828 | % | 10 | 12 | 15 | 19 | 18 |
| Elongation, crosswise | D-828 | % | 8 | 9 | 10 | 11 | 11 |
| Elmendorf tear, lengthwise | D-689 | g | 50 | 60 | 85 | 255 | 590 |
| | | N | 0,5 | 0,6 | 0,8 | 2,5 | 5,8 |
| Elmendorf tear, crosswise | D-689 | g | 145 | 170 | 200 | 525 | 1335 |
| | | N | 1,4 | 1,7 | 2,0 | 5,1 | 13,1 |
| Dielectric breakdown voltage | D-149 | kV | 0,4 | 0,6 | 0,7 | 0,9 | 2,0 |

Trademark information: 3M TufQUIN™ is a registered trademark of 3M™ Co., USA.

Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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St.-Nr.: 68/207/07677 | Zertifiziert nach DIN EN ISO 9001:2015 | UL anerkannter Repacker E341377

- Elektroisolierstoffe
- Dichtungen
- Wärmeleitprodukte
- Technische Folien