

ELBOARD ZF

Characteristic features

- Insulation class A (105 °C) according to VDE 0530 part 1
- Light calendered pressboard, 100 % sulphat pulp
- Flexible (medium density)
- High purity and high oil absorption
- Good compatibility with liquid dielectrics
- Natural-coloured

Material properties

| | Test standard * | Sample conditioning | Measured value | Standard value |
|--|-----------------|------------------------------|---|--|
| Thickness tolerance | IEC 641-2 | Standard atmosphere 23/50 | ≤ 1.6 mm 5.0 % > 1.6 - 6.0 mm 3.5 % | ± 7.5 % ± 5.0 % |
| Apparent density | IEC 641-2 | Standard atmosphere 23/50 | 0.96 g/cm ³ | 0.85 - 1.05 g/cm ³ |
| Min. tensile strength M.D. unfolded | IEC 641-2 | Standard atmosphere 23/50 | > 1.6 mm 66 N/mm ² > 1.6 - 3.0 mm 57 N/mm ² > 3.0 - 6.0 mm 56 N/mm ² | 65 N/mm ² 55 N/mm ² 50 N/mm ² |
| Min. tensile strength C.M.D, unfolded | IEC 641-2 | Standard atmosphere 23/50 | > 1.6 mm 46 N/mm ² > 1.6 - 6.0 mm 42 N/mm ² | 45 N/mm ² 40 N/mm ² |
| Min. elongation M.D, unfolded | IEC 641-2 | Standard atmosphere 23/50 | 7.1 % | 7.0 % |
| Min. elongation C.M.D, unfolded | IEC 641-2 | Standard atmosphere 23/50 | 8.1 % | 8.0 % |
| Max. moisture content | IEC 641-2 | Standard atmosphere 23/50 | 7.0 % | 8.0 % |
| Max. ash content | IEC 641-2 | Standard atmosphere 23/50 | 0.3 % | 1.0 % |
| pH of aqueous extract | IEC 641-2 | Standard atmosphere 23/50 | 7.5 | 6.0 - 9.0 |
| Max. shrinkage M.D | IEC 641-2 | Standard atmosphere 23/50 | 0.5 % | 1.0 % |
| Max. shrinkage C.M.D | IEC 641-2 | Standard atmosphere 23/50 | 1.0 % | 1.4 % |
| Max. thickness shrinkage | IEC 641-2 | Standard atmosphere 23/50 | 4.3 % | 6.0 % |
| Min. oil absorption | IEC 641-2 | Standard atmosphere 23/50 | 37 % | 20 % |
| Min. breakdown voltage in oil | IEC 641-2 | Standard atmosphere 23/50 | ≤ 1.6 mm 36 kV/mm > 1.6 - 6.0 mm 30 kV/mm | 35 kV/mm 30 kV/mm |

| | Test standard * | Sample conditioning | Measured value | Standard value |
|---|-----------------|------------------------------|----------------|----------------|
| Max. conductivity of aqueous extract | IEC 641-2 | Standard atmosphere 23/50 | 6.1 mS/m | 8.0 mS/m |

Measured values determined at 1.7mm, 2.0 mm, 3.20 mm thickness.

Values are based on typical Test Methods and Conditions and published for Reference purposes only