# WKT 173
## TECHNICAL DATA SHEET

**PRESS TEC**

### STANDARDS
acc. to EN 60893:UP GM 203
acc. to NEMA LI-1:GPO-3
acc. to DIN 7735:HM 2471

### LAMINATE FOR EXTREME ELECTRICAL REQUIREMENTS.
Low smoke gas emission and
toxicity in case of fire.
Flame-retardant acc. to UL 94, level V0.
Special creep resistance CTI 600.

### DESCRIPTION
WKT 173 is a special laminated material based on halogen-free, unsaturated polyester resin in connection with a reinforcement glass mat. Primarily the material distinguishes by means of good mechanical as well as excellent electrical characteristics.

### ROHS DIREKTIVE
The dangerous substances mentioned in the EU-directive 2015/863/EU (RoHS-Direktive), §4 Clause 1, are not used for manufacturing the material.

### COLOUR
White, Red

### STANDARD SIZE:
2440 x 1220mm (2,0 - 80 mm)
3720 x 1020mm (2,0 - 60 mm)
2020 x 1020mm (40 - 130mm)
We are well prepared to cut the sheets to the required dimension.

### APPLICATION
Railway-and traffic technology
Electrical industry
Transformer industry
Mechanical engineering

| MECHANICALCHARACTERISTICS | | VALUE | NORM |
|---|---|---|---|
| Tensile strength // | MPa | 110 | ISO 527 |
| Flexural strength ⊥ | MPa | 200 | ISO 178 |
| Compressive strength ⊥ | MPa | 350 | ISO 604 |
| Elasticity modulus | MPa | 12000 | ISO 178 |

| THERMAL CHARACTERISTICS | | VALUE | NORM |
|---|---|---|---|
| Heat resistance | °C | 155 | IEC 60216 |
| Thermal class | | F | DIN 60085 |
| Thermal conductivity | W/mk | 0,3 | DIN 52612 |
| Linear expansion factor // | $10^{-6}$ K$^{-1}$ | 15 - 30 | DIN 53762 |

| ELECTRICAL CHARACTERISTICS | | VALUE | NORM |
|---|---|---|---|
| Dielectric strength ⊥ | KV/mm | 13 | IEC 60243-1 |
| Breakdown voltage // | KV/25mm | 70 | IEC 60243-1 |
| Tracking resistance | CTI | 600 | IEC 60112 |

| OTHER CHARACTERISTICS | | VALUE | NORM |
|---|---|---|---|
| Density | gr/cm³ | 1,85 | ISO 1183 A |
| Flammability | | V0 | UL 94 |
| Water absorption | mg (D=4) | <30 | ISO 62-1 |
| Halogen-free | | Yes | |
| Resin | | UP | |
| Type of reinforcement | | Glass mat | |

All measured values have been determined at room temperature.
The indicated data describe average values (typical measuring values) , which can be changed in the edge zone of 50mm. The values are not legally binding so that we cannot accept any responsibility for their accuracy.