

WKT 171

TECHNICAL DATA SHEET

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 171 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

MECHANICAL CHARACTERISTICS		VALUE	NORM
Tensile strength //	MPa	70	ISO 527
Flexural strength +	MPa	130	ISO 178
Compressive strength +	MPa	260	ISO 604
Elasticity modulus	MPa	9000	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/cm ³	1,8	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.