

WKT 175

TECHNICAL DATA SHEET

STANDARDS

acc. to EN 60893:UP GM 205

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 175 is a special laminated material based on halogen-free, unsaturated polyester resin in connection with a reinforcement of cut glass und glass fibres. 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

Mintgreen

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	200	ISO 527
Flexural strength +	MPa	350	ISO 178
Compressive strength +	MPa	500	ISO 604
Elasticity modulus	MPa	≥ 20000	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	10 - 20	DIN 53762

ELECTRICAL CHARACTERISTICS		VALUE	NORM
Dielectric strength +	KV/mm	13	IEC 60243-1
Breakdown voltage //	KV/25mm	65	IEC 60243-1
Tracking resistance	CTI	600	IEC 60112

OTHER CHARACTERISTICS		VALUE	NORM
Density	gr/cm ³	1,9 - 2,0	ISO 1183 A
Flammability		V0	UL 94
Water absorption	mg (D=4)	<30	ISO 62-1
Halogen-free		Yes	
Resin		UP	
Type of reinforcement		Cut glass / glassfibres	

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.