

Technical material data

Panel MKHP grey RAL 7035

melamine paper phenolic laminate | Carta-M | Umabord

CARRIER: paper webs
MATRIX: phenol resin, melamine top layers

MECHANICAL PROPERTIES	unit	test value
flexural strength	MPa	130
impact strength	kJ/m ²	15
notched impact strength (charpy) parallel to laminations	kJ/m ²	4
tensile strength	MPa	100
Compressive strength parallel to laminations	MPa	150
splitting force	N	2000
elasticity module bending test	MPa	7000

ELECTRICAL PROPERTIES		
insulation resistance	MΩ	10 ⁹
dielectric strength (1-minute test voltage) at 90°C in oil parallel to the layer direction	kV	20
dielectric strength (1-minute test voltage) at 90°C in oil perpendicular to the layer direction	kV/mm	25
dissipation factor at 48-62 Hz	max.	0.08
dielectric constant		5
tracking resistance	CTI	600
arc resistance	level	L1

THERMAL PROPERTIES		
thermal conductivity	W/m*K	0.2
coefficient of elongation	10 ⁻⁶ /K	20-40
temperature limit	°C	120
limit determination of the threshold temperature due to flexural strength	MPa	65
thermal class		E
incandescence resistance	level	2a

OTHER PROPERTIES		
raw density	g/cm ³	1.4
water absorption at 3mm thickness	mg	80
flammability	level	V2, thickness ≥ 8: V0

The values in () are specific values which are only noted for information; they cannot be seen as a requirement of this norm. The stated values are average values which are confirmed by regular statistical tests and controls. These data are pure representative information and may only lead by an explicit agreement to an assurance for a sales agreement. Directive 2011/65/EU of European Union on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) became operative as from the 27th of January, 2011. Following substances namely are involved: lead, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers, mercury. We herewith declare that all of our products were manufactured RoHS conformal. As downstream users (i.e., as manufacturer of products), we act in accordance with European Union Regulation 1907/2006 (the REACH Regulation). According to information provided to us by our suppliers, no substances from the latest Candidate List (the List of Substances of Very High Concern, or SVHC List) from the 15th of June, 2015 exist in the materials used by us in concentrations of more than 0.1 % by mass.

PROPERTIES

- coloured surfaces trough melamine laminated coloured outer layer
- tracking resistant
- mechanical high-quality
- electrical properties adequate for low and medium voltages

APPLICATIONS

- front panels indoors
- base plates for switching equipment and control cabinets
- laboratory tables

Different colours and decors available on request.

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