

Technical Specification

TESTS:

KERROCK is a high quality inorganic acrylic polymer bonded composite material. The testing of its physical and chemical properties was

carried out at the Kolpa Laboratories, at the Institute of Social Medicine and Hygiene, Novo mesto, and at the Institute of Material and Construction Research in Ljubljana.

PROPERTY	VALUE	METHOD
- DENSITY	1710 - 1750 kg/m ³	ISO R-1183/A
- FLEXURAL MODULUS	8800 - 9800 MPa	ISO 178
- FLEXURAL STRENGTH	49 - 69 MPa	ISO 178
- TENSILE STRENGTH	29 - 47 MPa	ISO R 572
- IMPACT STRENGTH	3 - 5.5 kJ/m ²	ISO 179
- HARDNESS BARCOL	56 - 64	ASTM D 2583-95
- THERMAL EXPANSION	4.1 x 10 ⁻⁵ K ⁻¹	inductive deformation measurement (0 - 50°C)
- TENSILE LIMIT	0.34 % - 0.9 %	ISO R 572
- WATER ABSORPTION	0.04 %	ISO 62/1
- RESISTANCE TO STEAM (exposure 1 hour)	grade 4 - slight change in shine only visible from a certain angle	ISO 4586-2/art. 8
- RESISTANCE TO DRY HEAT	grade 4 - slight change in shine only visible from a certain angle	
- RESISTANCE TO CIGARETTE BURNS	grade 3 - slight change in shine only visible from a certain angle	ISO 4582-2/art. 18
- RESISTANCE TO ATMOSPHERE	no changes	2 years exposure outside
- TEST FOR FLAMMABILITY	LFV 0 94HB	ISO/DIS 10351 UL 94
- SURFACE RESISTIVITY	20 x 10 ¹¹ - 2.0 x 10 ¹² Ω	DIN VDE 0303 IEC 93
- VOLUME RESISTIVITY	7.9 x 10 ¹⁴ - 1.2 x 10 ¹⁴ Ωcm	DIN VDE 0303 IEC 93
- TRACKING RESISTANCE	CTI 600 M	DIN VDE 0303 IEC 112
- DIELECTRIC CONSTANT	4.5	DIN VDE 0303 IEC 250
- DISSIPATION FACTOR tan	2.8 x 10 ⁻³	DIN VDE 0303 IEC 250
- HEALTH CERTIFICATION		

KERROCK meets the conditions, cited in the regulations of General Usage and Trade of Products Certificate.