HGW 2088

PHENOLIC COTTON / PF CC 42

Material description

HGW 2088 consist of fine cotton fabric sheets in combination with phenolic resins. This material is suitable for use as electrical insulation material as well as for applications subject to high mechanical stress. Due to its excellent mechanical strength, good sliding properties and resistance to solvents, weak alkalis, oils, and fuels, HGW 2088 is a very versatile thermoset. HGW 2088 comes in rolls. Solid rods, tubes

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	1.4	g/cm3
Sliding friction		◑	
Abrasion resistance		◑	

Mechanical properties	Test method	Value	Unit
Tensile strength	DIN 53455	50	MPa
Bending stress at fracture perpendicular to the layer direction	ISO 178	90	MPa
Compressive strength parallel to the direction of layering	DIN 53454	65	MPa

Thermal properties	Test method	Value	Unit
Thermal endurance	VDE 0304/2	120	°C

Electrical properties	Test method	Value	Unit
Comparative tracking index (CTI)	IEC 60112	100	CTI

These technical data have been determined as average values by our suppliers from many individual measurements. In all measurements, the test specimens were tested in the dry state. We pass on the data with reservation. The table does not claim to be complete or correct. Material technology is subject to constant further development. No rights or guarantees can be derived from it. Own tests are necessary because the environmental and operating conditions (humidity, temperature, mechanical forces, radiation and chemicals, etc.) set limits in the application.

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