

Description

EP201 is made by impregnated fiberglass cloth with thermal epoxy resin laminate conforming EPGC 201 acc. IEC 60893. The material is known to retain its high mechanical values and electrical insulating qualities in both dry and humid conditions. These attributes, along with good fabrication characteristics, lend utility to this grade for a wide variety of electrical and mechanical applications.

Application

Electrical insulation parts for machine engineering and process. Industry with high mechanical strength at moderate temperature.

Availability

Thickness: 0.2 mm ~ 80 mm, tolerances acc. to IEC 60893.

Dimension: 1020 x 1220 mm, 1220 x 2440 mm.

Color: Green, Black.

Specification Data Sheet

Properties/Items	Method	Unit	EP201
Density	ISO 1183 / A	g/cm ³	2.0
Flexural strength	ISO 178	MPA	350 min.
Flexural modulus of elasticity	ISO 178	MPA	24000 min.
Tensile strength	ISO 527	MPA	300 min.
Compressive strength perpendicular	ISO 604	MPA	350 min.
Impact strength (Charpy) parallel	ISO 179/3C	kJ/m ²	45 min.
Electric strength perpendicular	IEC 60243-1 (90°C in oil)	KV/mm	10.6 min.
Breakdown voltage parallel	IEC 60243-1 (90°C in oil)	KV	45 min.
Insulation resistance after immersion	IEC 60167 (in water)	MOhm	5x10 ⁵ min
Comparative tracking index CTI	IEC 60112	CTI	200 min
Thermal endurance	IEC 60216	°C	110
Water Absorption	ISO 62	%	0.2 max
Flame Retardant	UL 94		HB

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of a large number of tests. The results obtained on these tests specimens cannot be applied to finished parts without reservations, as behaviour is influenced by processing and shaping.