

Technical Data Sheet



PF CP 202 (HP 2061.5)

Carrier: Paper webs / Matrix: Phenol formaldehyde resin

General properties	Unit	Norm	Guideline value
Bulk density	g / cm ³	(1,3 - 1,4)	1,3 - 1,4
Water absorption at 3mm thickness	mg	260	260
Mechanical properties			
Flexural strength	MPa	120	150-200
Impact strength	kJ/m ²	-	20
Notched impact strength (Charpy) parallel to the layer direction	kJ/m ²	-	5
Tensile strength	MPa	(100)	120-160
Compressive strength parallel to the layer direction	MPa	-	150
Compressive strength perpendicular to the layer direction	MPa	(300)	300-360
Splitting force	N	-	2000
Modulus of elasticity bending test	MPa	(7000)	7000-12000
Shear strength parallel to the layer direction	MPa	(10)	30
Thermal properties			
Thermal conductivity	W / (m * K)	-	0,2
Coefficient of linear expansion	10 ⁻⁶ /K	-	20-40
Limit temperature	°C	(120)	120
Limit value determination of the limit temperature due to the bending strength	MPa	-	65
Heat class		-	E
Glow resistance	Stage	-	2b
Electrical properties			
Dielectric strength (1-minute test stress) at 90°C in oil parallel to the coating direction	kV	60*	55
Dielectric strength (1-minute test stress) at 90°C in oil perpendicular to the coating direction	kV/MM	13	13,3
Dissipation factor at 48-62 Hz	max.	0,05	0,05
Permittivity at 48-62 Hz	max.	55	
Dielectric constant	---	55	5
Tracking resistance	CTI	(100)	100-150

The values in () are characteristic values given for information only; they must not be regarded as a requirement of this standard. The test values given are mean values which are backed up by ongoing statistical tests and checks. This data is purely information on quality and only leads to an assurance in the purchase contract if expressly agreed. The European Union Directive 2011/65/EU on the restriction and use of certain hazardous substances in electrical and electronic equipment (RoHS) came into force on January 27, 2011. These are the following substances: Lead, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers, Mercury. We hereby declare that all our products are produced in compliance with RoHS. We act as a downstream user (producer of articles) according to the EU Regulation 1907/2006 (REACH Regulation) of December 18, 2006. According to information from our suppliers, the materials we use do not contain any substances from the candidate list (SVHC list) of 15.06.2015 in a concentration of more than 0.1 mass%.

* After pre-treatment 96 h in air at 105°C immediately before testing.