

Application purpose and characteristics

For electrical insulating fittings and also for mechanically stressed components such as guidance, bushings and rollers. The rods are made of phenolic resin and coiled cotton fabric, they are therefore not suitable for the production of gear wheels! Good electrical insulating properties. High mechanical strength, very low creep under load.

Material name, short description	PF
Material name, based on technical standards	Phenolic resin cotton fabric
Density	1.325 g/cm³
Color	brown
Compound code	PF CC 42.020-00

Mechanical properties

Tensile strength	50 N/mm² DIN 53455
Flexural modulus of elasticity	≥ 7000 N/mm² DIN 53452
Bending strength 1	≥ 100 N/mm² DIN 53452 unmachined
Compressive strength 1	≥ 80 N/mm² DIN 53454 parallel to laminations
Impact strength	#ErrorkJ/m² DIN 53453

Thermal attributes

Limit temperature	120 °C VDE 0304 Part 21
Thermal class	E VDE 0534

Electrical attributes

Comparative tracking index	100 IEC 112 CTI
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In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.