PTFE POLYTETRAFLUOROETHYLENE

Material description

PTFE is a semi-crystalline thermoplastic often referred to by its trade name Teflon[®]. Its carbon-fluorine compound and the spiral structure of the atoms result in a variety of remarkable properties. Its extraordinary resistance to a wide range of chemicals as well as the high operating temperature enable a versatile field of application for this material. PTFE is soft, hardly susceptible to notching and has excellent sliding properties. It has low strength and is hardly wettable. The abrasion resistance must be described as low.

Conformities

RoHS, REACH

Unit
g/cm3
%
Unit
MPa
%
MPa
MPa
Unit
W/(m*K)
kJ/(kg*K)
10 ^{-6*K} -1
°C
°C
°C
Unit
<mark>Unit</mark> Ω * cm

Dielectric strength

IEC 60112

IEC 60243

20

600

kV/mm

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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