

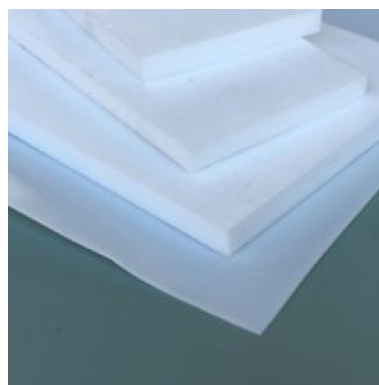
Polytetrafluoroethylene (PTFE)

The fluorinated polymers, commonly known as Teflon, are able to provide outstanding performance, which justify a higher cost. The main characteristic of the fluorinated polymers is the powerful stability of the molecules able to withstand extreme conditions.

The PTFE has excellent quality even dielectric to varying of temperatures and frequencies.

Technical details: Raw Material polytetrafluoroethylene (PTFE) : Standard color black, white.

Specific Gravity: 2.20



MECHANICAL PROPERTIES

Temperature of use	Density	Yield Stress	Breakdown Voltage	Modulus of elasticity (tension)	Modulus of elasticity (tension)	Modulus of elasticity (bending)	Hardness Test	Breaking Strength	Resistance Elongation	Wear Creep
C°	g/cm³	Mpa	Mpa	%	MPa	MPa	MPa	MPa	μ/km	
260	2,18	25		>50	700		30	5	1,58	21

THERMAL PROPERTIES

Melting Temperature	Glass Transition Temperature	Hot Dimensional Stability (met. A)	Hot Dimensional Stability (met. B)	Use Temperature Limit	Thermal Conductivity	Heat Capacity	Coefficient of Thermal Expansion
C°	C°	C°	C°	C°	W/K.m	J/K.m	10 1/K
327	-20	55	121	260	0,25	1	12

ELECTRICAL PROPERTIES

Constant Dielectric	Dielectric Loss Factor	Specific Bulk Resistivity	Surface Resistivity	Rigidity Dielectric	Resistance to Leakage Current
abs	Tan δ	Ω.cm	Ω	kV/mm	class
2,1	0,0002	10 ¹⁶	10 ¹⁶	48	KA 3c KB >600

VARIOUS PROPERTIES

Moisture Absorption	Water Absorption until Saturation	Specific Bulk Resistivity
%	%	
<0,05		VO