PTFE

Polytetrafluoroethylene (Teflon)

DESIGNATION	CHEMICAL NAME	TYPE
PTFE	Polytetrafluoroethylene (Teflon)	Thermoplastic

General description

The material has extremely good chemical resistance, low friction and withstands high temperatures.

Processing

PTFE is available as semi-finished products in the form of sheets, rods, hollow rods and hoses.
The material has good machining properties.
It is also supplied reinforced with glass and carbon.

Applications

Machined mechanical parts: gears, bushings, valve seals, gaskets, slide plates and more.
Non-stick coating (frying pans).

Special features

Teflon is the most common trade name.
Temperature resistance combined with low friction and chemical resistance.
Gives off toxic fluorine compounds in a fire.
High cold flow.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	2.16
Tensile strength	DIN 53455	N/mm^2	25
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	750
Elongation at break	DIN 53455	%	300
Service temperature, continuous	-	°C	-200/+250
Thermal expansion	ASTM D 896	mm/m/°C	0.17
Flammability	UL 94		V0

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

Opido Plast AB
Industrigatan 7, 341 50 Lagan, Sweden · Part of SP Group
+46 372-668 50 · info@opido.se
opido.se