



DATASHEET

P.T.F.E.

POLYTETRAFLUOROETHYLENE

TECHNICAL DATA

Properties	Test method	Unit of measure	Value
Specific weight	DIN 53479	g/cm ³	2,13 ÷ 2,18
Tensile strength	DIN 53479	kg/cm ²	200 ÷ 380
Elongation at break	DIN 53479	%	250 ÷ 450
Modulus of elasticity	DIN 53457	kg/cm ²	7500
Torsional strength	DIN 53457	kg/cm ²	1600
Shore D hardness	DIN 53505	-	55 ÷ 59
Compressive strength	DIN 53455	kg/cm ²	70
Thermal conductivity	DIN 52612	kCal/m.h.°C	0,2 - 0,4
Specific heat	Specific heat	kCal/kg °C	0,25
Water absorption	DIN 53472	%	0
Electric strength	DIN 53841	kV/mm	20 ÷ 30

IT IS AN EXCELLENT ELECTRICAL INSULATOR

It is used frequently as an insulator for wiring and cable, particularly in computer applications, since it is an excellent electric insulator and has a high melting point

IT HAS LOW FRICTION

It's low friction also makes it a popular material in mechanical engineering applications. It is regularly used for slide bearings, slide plates, gears and other working parts where sliding action takes place.

IT IS CHEMICALLY RESISTANT & INERT

Combined with its high temperature resistance PTFE is extremely chemically resistant and chemically inert making it an ideal material for sealing components in chemically aggressive applications.

IT IS FDA APPROVED & FOOD SAFE

This makes it an excellent choice for applications in food manufacturing and packaging, particularly since the material is food grade compliant and resistant to staining.

IT IS TOLERANT OF HIGH TEMPERATURES

Due to its non-reactivity as well as its tolerance for high temperatures, PTFE is also often used in industrial pipes and hose assemblies in which chemicals and acids are used.

PTFE is an incredibly versatile material used across many industries, thanks to its stable and durable characteristics and affordability.

