PTFE (fluorpolymer)

Fluorinated plastics, have properties of chemical, thermal, and Dielectric exceptional stability due to the combination of fluorine-carbon. Best known in this family is the P.T.F.E. (Polytetrafluoroethylene), a polymer molecular chain of great length. PTFE has as main characteristics, which can be operated in an exceptionally wide range of temperatures from -200 ° C to +250 ° C combined with an extreme inertness, it is not attacked by most chemicals. It has an extremely low coefficient of friction and is associated with the nature nonstick surface.

We can also supply bar or machined part pure PTFE or glass fiber fillers, graphite, stainless steel, or bronze.

Among other advantages which represents the filled PTFE, is to increase wear resistance.

	MOULDING P.T.F.E Pure	EXTRUSION P.T.F.E Pure
Tensile strength (Mpa)	30	22
Tensile elongation at break	350%	300%
Specific weight	2,16	2,16

CHARGES FEATURES IN P.T.F.E

Charge	Features
Carbon-Graphite	In applications chemical and mechanical wear decreases ei initial pressure increases resistance and resistance to abrasion at high speed.
Fiberglass	It is the most common, as it is the least modifies the electrical and chemical properties, improving the mechanical properties.

Bronze	In case of friction this load increases resistance, obtaining a good thermal conductivity and superior mechanical properties.
Molybdenum disulfide	We will obtain a hardness, stiffness and superior strength. Hardly affects the chemical and electrical properties of pure PTFE.