



PTFE Components

Commonly referred to as Teflon®, PTFE provides true chemical inertness. Unaffected by all known chemicals, including alkaline solutions, acids and solvents; and also offers extremely low coefficients of friction. Under moderate loads, PTFE can be used in temperatures up to 500 F, and in liquid nitrogen, down as far as -325F. Other favorable properties of PTFE include,

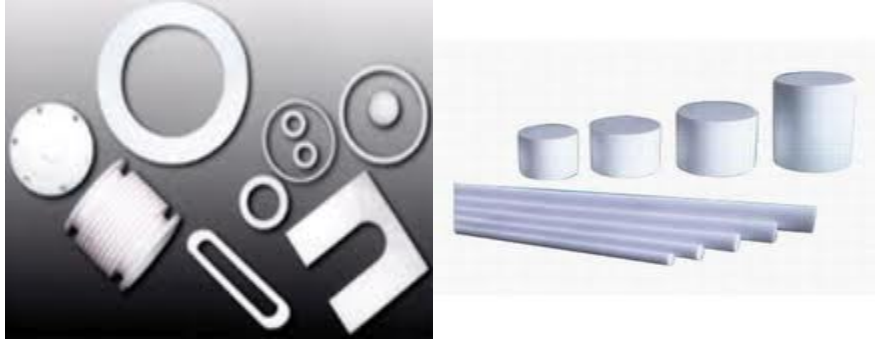
- **Optimal dielectric characteristics.**
- **Self-lubricating and non-sticking.**
- **High mechanical resistance obtained by means of charge modification.**
- **Excellent resistance to aging (even in UV exposure)**
- **Non-flammable**
- **Good heat insulation**
- **Excellent tool workability**
- **Bio-compatibility and suitability for contact with food (FDA compliant).**

Polytetrafluoroethylene	
Teflon®, Syncolon, Fluon, Poly(tetrafluoroethene), Poly(tetrafluoroethylene)	
Properties	
Molecular formula	(C ₂ F ₄) _n
Density	2200 kg/m ³
Melting point	327 °C
Thermal conductivity	0.25 W/(m·K)

By utilizing different fillers in the PTFE, the basic properties of the virgin polymer can be improved. Fillers are regularly used to provide added benefits such as enhanced compressive strength, thermal conductivity, reduced thermal expansion and reduced wear factors. Common fillers are glass, graphite, bronze, carbon and platinum in various percentages.

We supply PTFE O-Rings, Back-Up Rings (Solid, Split, Spiral), rods & tubes, as well as custom molded shapes.

Many standard PTFE O-rings and Back-Up rings are currently available in our standard inventory.



Need custom molded shapes? We can do it with no set up charges.

Fast delivery on new production, exceptional customer service, competitive pricing and quick quote turn time make Total Hydraulics your best choice for all of your PTFE needs.

Teflon® is a registered trademark of DuPont DOW Elastomers

