



## PTFE

Invented by Dr. Roy J. Pluncket, a Scientist Dr. Pont Nemours U.S.A. on 6 April 1938. TFE Monomer is generally Manufactured by synthesis of Calcium Fluoride, Sulphuric Acid & Chloroform. The Polymerization of TFE is carried out in carefully controlled conditions to form PTFE.

PTFE is high Performance Engineering Speciality Polymer. It Has a Unique Position in the polymer in the polymer Industry due to its versatile characteristics.

PTFE (Polytetrafluoroethylene) is a synthetic fluoropolymer of tetrafluoroethylene that has numerous applications. PTFE is a fluorocarbon solid, as it is a high-molecular-weight compound consisting wholly of carbon and fluorine. PTFE is hydrophobic : neither water nor water-containing substances wet PTFE, as fluorocarbons demonstrate mitigated London dispersion forces due to the high electronegativity of fluorine.

Due to its versatile and wonderful properties, ptfе inds diverse applications in various industries such as chemical, Pharmaceutical, electrical, Power Plants, fertilisers, paper, railways, shipping, aircrafts, spacecrafts, and machine tools manufacturing etc, practically all Kinds of industires are demanding ptfе for existing and new applications due to itsunique and exceptional properties.

### Basic Properties of PTFE

- Extremely low coefficient of friction
- Chemical Inertness
- Non-Adhesive Properties
- Broad range of service temperature (-260C to + 260C)
- Low dielectric constant and loss factor
- Excellent chemical resistance
- FDA Compliance for Food Constant
- Low Water Absorption
- Inherent UV Resistant
- Resistance to Magnetic field
- Non toxic

### PTFE Grades

- 100% Pure PTFE
- Peek PTFE
- 15 to 25% Glass Filled PTFE
- 25 to 35 % Carbon Filled PTFE
- 15% Graphite Filled PTFE
- 40 to 60% Bronzed Filled PTFE
- 55 to 5% Bronzed + Molybdenum Disuphide Filled PTFE
- 15 to 5% Glass + MOS2 Filled PTFE
- Pigmented PTFE

← Our Principle Raw Material Suppliers →

**Gujarat Fluorochemicals Limited, Noida**

## Our Products

	<b>PTFE MOLDED &amp; EXTRUDED ROD</b> Diameter - 5mm to 100mm (Standard) Length - 900mm or 100mm (Standard) Specific Length Length & Diameter available as per customer's Requirement		<b>PEEK PTFE (Polyther Ketone)</b> 5 to 20% Peek PTFE Products as per customer Specification Excellent Dimension stability than PTFE. Ideal for stop - start application to eliminate stick - sleep high continues use temprature (up to 260 C)
	<b>PTFE BUSH</b> Diameter - O.D 12.5 X ID 6mm To 300X275mm (Standard)Length - 100mm (Standard) Specific Length & Diameter available as per customer's Requirement		<b>TURCITE SHEET &amp; STRIP</b> Turcite know as various name like bearing liner / trexon etc. extensively used in mechanical machine tool manufacturing industries. specific size & thickness available as per customer requirement.
	<b>PTFE MOULDED SHEETS</b> Size - 300mm <sup>2</sup> / 400mm <sup>2</sup> / 450mm <sup>2</sup> / 500mm <sup>2</sup> / 600mm <sup>2</sup> / 1500mm <sup>2</sup> / 1000mm <sup>2</sup> / 1200mm <sup>2</sup> / 1500mm <sup>2</sup> Thickness - 1.5mm To 100mm (Standard)		<b>PTFE BALL (VALVE SEALS - SEATS)</b> Ball Valve Seals. Stem Seals, Body Seats Etc., Available as per Customers Drawing & Specification in all PTFE Grades.
	<b>PTFE SKIVED SHEETS</b> Diameter - 300mm W / 450 mm / 600 mm / 600 mm / 900 mm / 1000 mm Thickness - 0.5mm To 3.5mm (Standard) Specific Size & Thickness available as per customer's Requirements.		<b>PTFE BELLOWS</b> Line Bellows, Expansion Bellows, Valve Bellows Special Bellows, Composite Bellows Available as per Customer Requirement in all PTFE Grades.
	<b>PTFE RING / WASHER / GASKET</b> Mfg. upto 600 Dia in all PTFE Grades Specific Size & Thickness available as per customer's Requirement.		<b>PTFE DIMPLE SHEET(BRIDGE BARING PAD)</b> PTFE Dimple Sheet also know as PTFE Bridge Bearing Pad, mostly used in fastly growing infrastructural projects like metro Projects, Railway Bridges. Fly-Over etc., Also Mfg. as per customer's specifications and Drawings.
	<b>PTFE Machine Components</b> Mfg. up to 1200 Dia in all PTFE Grades Specific Size & Thickness available as per customer's Requirements.		<b>PTFE Customize Components</b> We will manufacture PTFE components as per customer specification & Drawing & also designed & develop the products as per application. Milled & Ready Cut Gaskets.
	<b>PTFE BALL</b> Specific Size & Thickness available as per customer's Requirements.		<b>PTFE -O - RINGS</b> Mfg. upto 1000 Dia all PTFE Grades specific Size & Thickness available as per customer's Requirements.