Fluorothermech Polymer

(an ISO 9001:2015 Certified Company)
www.fluorothermechpolymer.com

Fluorothermech Polymer

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Manufacturers of PTFE & FILLED PTFE, PEEK Components

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About us

FLUOROTHERMECH POLYMER is a proficient manufacturer compression-moulded finished components from plastic and composite polymers, primarily PTFE, melt Processible Fluoropolymer sand other Engineered Plastics. Compression moulding involves subjecting powder or pellet resins to substantial pressures inside of a closed die set to create rods, tubes, sheets, plates, near-net shapes or complex finished parts. Using our compression moulding experience, we combine premium resins and sophisticated process technologies to create superior compression-moulded shapes and machined parts as per customer's specifications.

We will, however, research and manufacture all high-performance plastic materials which are compatible with our compression-moulding equipment.

- FLUOROTHERMECH POLYMER is professionally managed company.
- We have more than 5 years experience in developing plastic and composite polymers, primarily PTFE, melt Processible Fluoropolymers and other Engineered Plastics
- We have our manufacturing set up at Pune, India.
- We have all relevant required facilities.
- We are a young team with great technical expertise in polymer product development

Our compression-moulded parts consistently meet or exceed the specifications of our customers in industries such as:
•Aerospace and Defence
•Chemical Processing Industry (CPI)
•Electrical Engineering
•Electronics
•Machine Shops Medical
•Oil & Gas
•Seal Manufacturers
•Semiconductor
•Water & Wastewater Treatment

We provide Complete client satisfaction by

- Timely delivery
- Reasonable prices
- Quality products and service

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PTFE

PTFE (polytetrafluoroethylene) is a high-molecular-weight fluoropolymer that consists entirely of carbon and fluorine atoms. PTFE is best known by the brand name Teflon®.

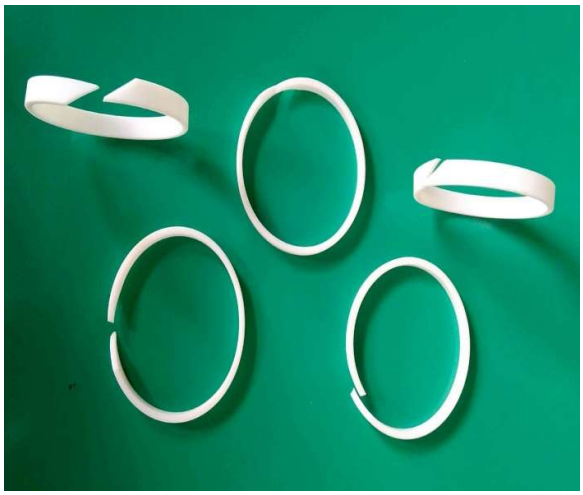
We compression mould and machine both virgin PTFE and filled PTFE compounds. Various fillers are blended with PTFE, Modified PTFE to enhance particular properties. Some fillers include carbon fiber or carbon powder, glass fiber, bronze, stainless steel, Graphite, molybdenum disulfide (MoS2), polyphenylene sulfide (PPS), Ekonol® and many different pigments.

Available grades

- PTFE
- MODIFIED PTFE
- GLASS FILLED PTFE
- CARBON FILLED PTFE
- BRONE FILLED PTFE
- MOS2 FILLED PTFE
- GRAPHITE FILLED PTFE
- STAINLESS STEEL FLLED PTFE AND SPECIFIED GRADE BY CUSTOMERS.

PRODUCT RANGE : UPTO 12”

PTFE VALVE SEATS



COMPRESSOR RINGS

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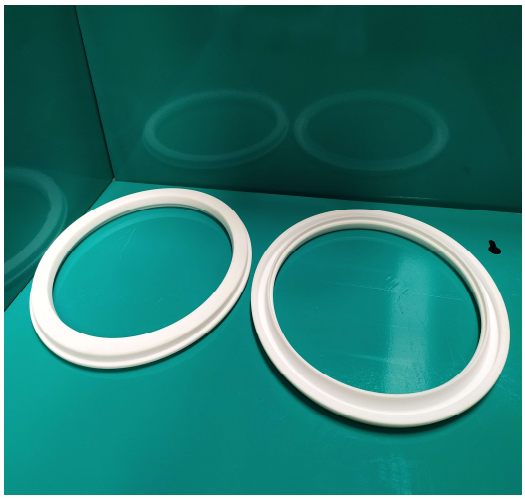


PTFE & Filled PTFE BUTTERFLY VALVE SEATS

PTFE Properties

• Exceptional chemical & thermal resistance
•Not affected by any solvents
•Reduced deformation under load
•Low permeability
•Extremely low coefficient of friction
• High creep resistance & dimensional stability
•Low dielectric constant over a wide frequency range
•Fillers can enhance PTFE's mechanical properties

PTFE Applications

When the ability to withstand high temperatures is required, compression-moulded and machined PTFE is often used to make seals and other parts for aircraft, rockets and missiles. PTFE is also used to make seals that can withstand cryogenic temperatures.

Because PTFE is chemically inert from cryogenic temperatures to very high temperatures, PTFE is used in components for transferring ultrapure, aggressive fluids, such as seals, valves, laboratory equipment, pipes, liners, fittings, connectors, and pumps. Contaminants will not adhere to the surface of PTFE.

The semiconductor industry uses ultra-pure PTFE for its extreme inertness and wide operating temperature range.

The construction industry uses PTFE bearing pads because they resist weather-related degradation.

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Virgin PTFE complies with FDA regulations for use in the food, beverage, cosmetics and pharmaceutical industries.

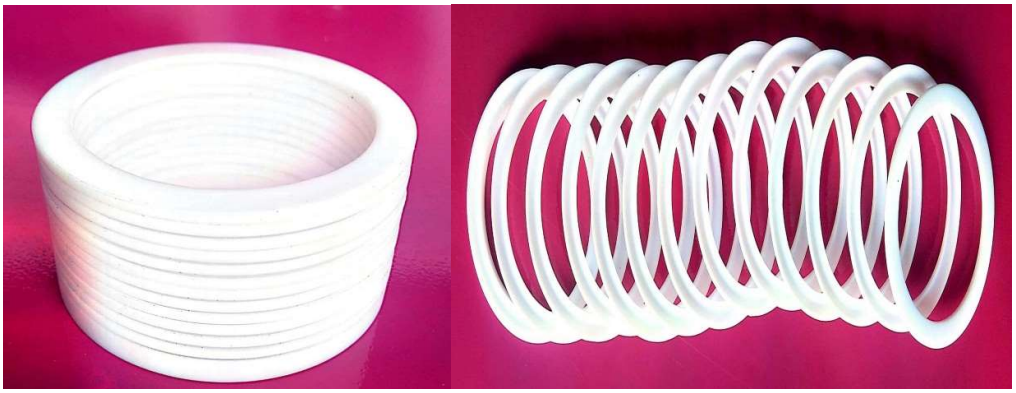
PTFE PARTS

Compression-moulded PTFE Parts

PTFE valve seats, O-rings, seals, mechanical seals, seal rings, bushings, bearings, piston rings, gaskets, washers, sleeves, balls, mixing impellers and agitators, membranes, strips, diaphragms, bearings, slide,slide plates, slide plates, bearing pads.

Chevron Packing

Chevron packing is used for hydraulic, pneumatic cylinder, higher pressure pumps and Valve Stem Packing.



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BEARING BUSHES FOR PUMPS

Fluorothermech manufacturers a wide range of pumps parts bearing bushes.

PEEK

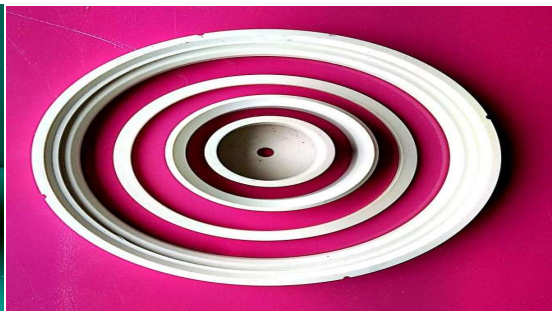
PEEK (polyetheretherketone) is a linear aromatic semi-crystalline thermoplastic that maintains a multitude of desirable properties at high temperatures

By adding milled glass or carbon fibers, PTFE, or other fillers, certain PEEK properties such as the abrasion resistance, coefficient of friction and surface hardness can be improved.

Available grades
- GLASS FILLED PEEK
- CARBON FILLED PEEK
- PTFE FILLED PEEK AND SPECIFIED GRADE BY CUSTOMERS.

PRODUCT RANGE : UPTO 06”

PEEK BUSH



PEEK VALVE SEATS

Manufacturers of PTFE & FILLED PTFE, PEEK Components

PEEK Properties

•Excellent strength, stiffness and dimensional stability in high-temperature and harsh environments
•Excellent long-term creep and fatigue properties
•High abrasion and cut-through resistance plus a low coefficient of friction yields excellent wear resistance
•Low tendency to form stress cracks
•Easy to process and lightweight compared to titanium, steel and aluminum
•Low coefficient of friction and high wear resistance
•Low outgassing, low particle generation and inherent purity yield reduced contamination
•Chemically resistant and insoluble in common solvents, including acids oils and salts
•Chemical and water resistance similar to that of PPS but at higher continuous operating temperatures, up to 250 °C (482 °F)
•Electrical properties are maintained over a wide frequency and temperature range

PEEK Applications

Compression-moulded PEEK is used to manufacture parts that are designed to replace metal parts, improve performance and reduce overall costs for demanding oilfield, electronics, transportation and medical applications.

PEEK is used to produce large seal rings and other parts for the oil & gas industry.

PEEK is often used to make medical implants.

PEEK COMPONENTS

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Compression-moulded PEEK Parts

PEEK Valve Seats & Seals, Thrust Washers, Thrust Bearing, Stem Bushing, Gasket, Seal Rings, Fitting, Gears, Medical Implants, Transmission Components and Other Specified Components By Customer.

FLUOROTHERMECH POLYMER

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