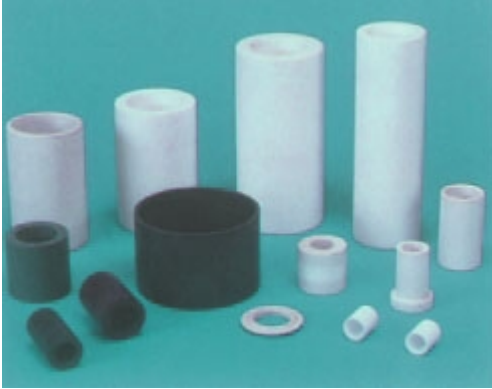


PTFE Moulded & Extruded Products

High quality PTFE shapes and Fluoropolymer products for the industrial world.

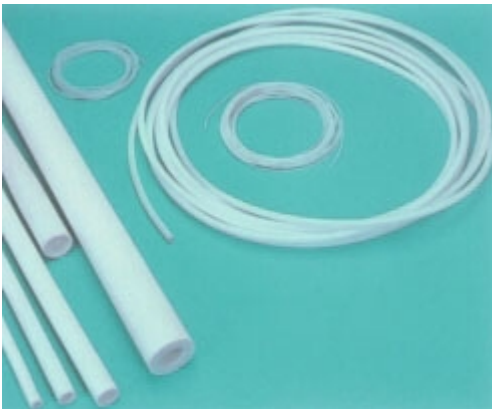
Pioneer Enterprise is in Manufacturing and Marketing of PTFE shapes and Fluoropolymer products for the industrial world. These engineered Fluoropolymers are available in Virgin and Reprocessed grades and a variety of custom compounded reinforced fillers that change the properties of PTFE for specific applications.

PTFE Moulded & Extruded Products



Rods

Dia : 3-250 (Standard)
: large Diameter made to order
Length : 300-1000 mm (standard) or as required



Tubes

Flexible

I.D. : 1.6-25 mm
Wall Thickness : 0.8-1.6 mm
Length : 3000-12000 mm

Rigid

I.D. : 19-89 mm
O.D. : 25-100 mm
Length : upto 5000 mm
Wall thickness : 3-25 mm



Bushes

O.D. : 32-150 mm (standard)
I.D. : 12.5-127 mm (standard)
Length : 100 mm (standard)
: upto 300 mm in special cases.

Larger Diameter made to order.

The following filled grades are also available:

Glass, Carbon, MOS₂, Graphite, Bronze, Mica, Ceramic & Alumina.

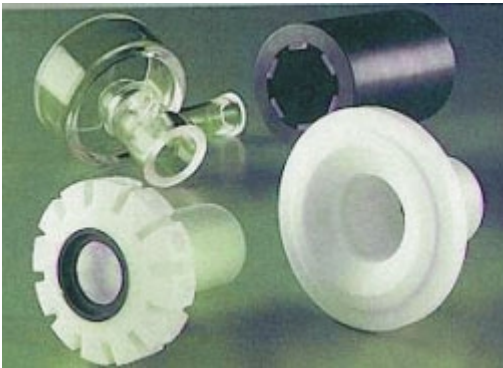
Coloured PTFE also available

PTFE Moulded & Machined Products

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PTFE Moulded & Machined Products



It is often more efficient to use moulded semi-finished products to avoid excessive machining of relatively expensive materials and also to reduce machining labour and time. The tooling costs are generally very low.

PTFE Soft Unsintered Products

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PTFE Soft Unsintered Products



Universal Rope Gasket

PTFE Rope Gasket is a specially formulated sealing material that withstands vibration, wide operating temperature range and has extremely low coefficient of friction. The friction free characteristic promotes smoother action and increases the life of the gasket many times over.

It is used as a gasket on flanged connections, pressure vessels and all other similar mating faces as well packing for valves and similar gland applications.

Diameter : 1.5 - 19 mm

Length : 5000 - 10000 mm

Available : SQUARE / ROUND SECTIONS.

Thread Sealant Tape

Unsintered pure PTFE in tape form is the standard material for sealing threaded joints and connections. Joints can be taken apart long afterward without any trouble. It is virtually a universal sealing material which can be used on pipes of galvanised Iron, Rubber, Copper, Plastic Brass, Aluminium, Stainless Steel, Ceramic, Monel, Carbon etc.

The inherent plasticity of PTFE allows it to extrude into the irregularities of the thread, so filling any voids or passages.

It is inert to acids, solvents oil, etc. and will not contaminate the liquid being handled.

Roll length : 12 Mtr. or as required

Width : 12.5 - 25.0 mm

Thickness : 0.075 mm



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PTFE Sheets

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PTFE Sheets



Sheets

Sizes available : 300 x 300mm to 1000 x 1000mm

Thickness : 3 - 25mm

: Thicker sheets available on request.

Thin Sheets

Width : 300 - 600mm

Thickness : 0.1 - 3.0mm

Available in roll form or as required.

The following filled grades are also available :

Glass, Carbon, MOS₂, Graphite, Bronze, Mica, Ceramic & Alumina.

PTFE Rings - Piston / Rider / Piston Rod Packing

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PTFE Rings - Piston / Rider / Piston Rod Packing



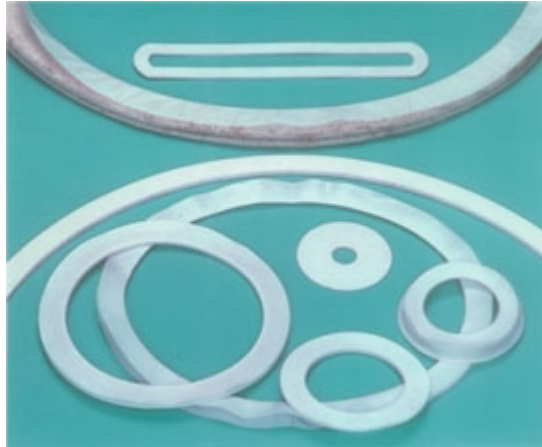
Since PTFE is a self lubricating material non-lubricated bearings, seals, piston rings, rider rings, piston rod packing, chevron rings, O rings etc., are in great demand amongst design engineers.

The use of fillers with PTFE changes certain properties and permits the material to be tailored to a wide variety of mechanical applications. In general, use of additives increases stiffness, hardness, compressive strength and resistance to deformation under load. We manufacture these rings for all types of non lubricated compressors.

PTFE Gaskets - Envelope / Solid

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PTFE Gaskets - Envelope / Solid

Size : 12 mm onwards

Thickness Of Flap : 0.5 mm or as required.

Available also in oval shapes and larger size. These gaskets are successfully used in chemical plants, glass lined equipment etc, due to their high temperature, corrosion and ageing resistance.

Envelope Gaskets are produced in two forms : Milled and Slit.

Milled

type envelope is perhaps the better of the two since it is made to fit the insert and presents a flat face to the flange.

Slit

type is perfectly adequate for many applications where cost is a major consideration. The envelope in this variety does not present a full face to the flange.

Solid Gaskets can be made to order in different types of shapes and sizes

FLEX-O-SEAL Universal Joint Gasket

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FLEX-O-SEAL Universal Joint Gasket



Introduction

Flex-O-Seal is a unique sealing material manufactured from special grade of expanded 100% pure PTFE by transforming the fibrous structure by means of a special process. Though very tough, it is spongy and suited to almost all flanges, covers and narrow cavities; Its special soft and flexible character enables it to be the most ideal seal under pressure without significant cold flow even on irregular, badly damaged or corroded flange surfaces. Once bolted this gasket rarely need to be retorqued.

Properties

Flex-O-Seal recommended temperature - 240 C to 310 C,
- PH Range - 0 to 14

No deterioration due to stocking for long time. Resistant to high pressure, non-toxic.

Not recommended for use against elemental fluorine, alkali metals and strong oxidizing agents.

Application

Flex-O-Seal is safely used in petroleum refining companies even in their offshore operations, corrosive chemical processing, food processing, paper mill, marine installation, for glass lined or fibre glass reinforced vessels and tank lid sealing, manhole covers, vent pipes, heat exchangers, pumps or compressors housing flanges, valves and many more industrial applications where conventional pre-cut gaskets are not readily available or unsuitable.

Installations

- The sealing surface must be clean, free from grease and dry to enable the gasket to stick properly.
- The width of the joint gasket is to be determined by the nominal diameter or type of flange. Selection of a tentative size of joint gasket would be approx. 1/3rd flange contact width inside the bolt hole e.g., 7 mm gasket joint to suit a 20 mm flange width.
- Remove the protective foil from the adhesive joint gasket to allow for fitting. Stick the gasket approx 2mm away from the bolt hole and press on lightly.
- Tighten the lubricated bolts in opposite pairs. Since it is highly compressible only bolt pressure is required to seal. The lap joint deforms perfectly to give a reliable seal.
- For delicate components such as glass flange the gasket ends can be joined by cutting a step in each end of gasket.
- FLEX-O-SEAL is easy to install, able to fill severe surface irregularities and reduces inventory of ready made gaskets, envelopes, etc. It has therefore taken its name as UNIVERSAL JOINT GASKET.
- On irregular or damaged flanged surfaces, it is possible to build up with short length of FLEX-O-SEAL

PTFE Lined Equipment Pipes / Fittings

High quality PTFE shapes and Fluoropolymer products for the industrial world.

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PTFE Lined Equipment Pipes / Fittings



Advantages

- High Chemical Resistance
- High Temperature Resistance
- Non Contamination
- Low Cost
- Maintenance Free
- Long Durability

Pipes

Lining : PTFE / FEP / PFA

Thickness : 2 - 6 MM

Sizes : Nominal bore 20 - 150 mm or as required

Max. length : up to 3000 mm

Std. Wall : for pressures and light vacuum

Heavy Wall : for full vacuum till 150° C and pressure

Fittings

Lining : PTFE / FEP / PFA

Thickness : 2 - 6 MM

Sizes : Nominal bore 20 - 150 mm or as required

Lining Of Pipes/Fittings as per your specifications is also undertaken.

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PTFE Bellows Line, Valve, Stirrer



PTFE Bellows With Flanges

Used mainly in chemical process pipelines and chemical manufacturing equipment.



Types

- Line ; for Flanges
- Valve ; With Spindle
- Stirrer

The following basic types are available:

Line Bellows: Nominal bore
: 25 - 225 mm.
: bigger sizes on order.

Valve Bellows : Complete with spindles.
: Nominal bore

Stirrer Bellows : Nominal bore 25 mm onwards.

Special Bellows : These bellows can be supplied with / without steel flanges.

PTFE Diaphragms (For Valves And Pumps)

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PTFE Diaphragms (For Valves And Pumps)



Diaphragms With Neoprene Rubber Pad

Sizes : 12 - 250 mm
: larger ones on request.

Uses : Extensively in Pharmaceutical / Food /Chemical Industry where a high standard of cleanliness and purity is required.

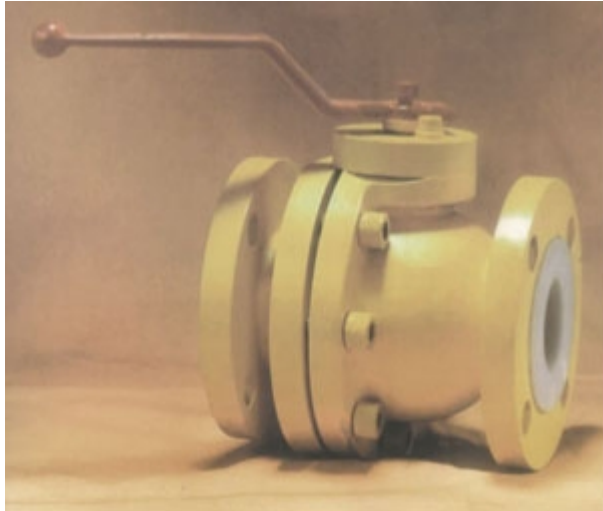
The almost universal chemical resistance, the high temperature resistance, the anti-stick, low friction surface of the PTFE Linings ensure minimum maintenance requirements, Low cost and efficient design along with long service life makes PTFE the most ideal material for use in valve and pump diaphragms.

PTFE Lined Ball Valve

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PTFE Lined Ball Valve



A specially patented Ball Valve having PTFE / PFA Lining directly moulded on all surfaces having contact with the fluid. The thickness of the lining is calculated to ensure total protection against highly corrosive chemicals for long service life.

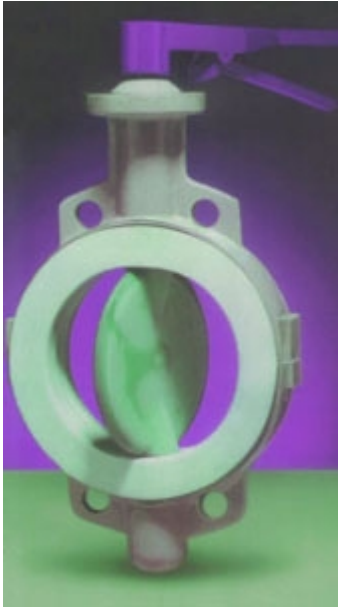
Unlike conventional Ball Valves the ball assembly is consisting of one solid piece without any looseness so that there is no deterioration of lining in the area of Ball Seam Welding. The Thickness of the lining is absolutely constant throughout to avoid any deformation of the ball.

PTFE Lined Butterfly Valve

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PTFE Lined Butterfly Valve



This Butterfly Valve is lined with Fluoro Plastic Material at all the surface contact areas for resistance against high corrosive media attacks.

The Seal on Seam of the disc automatically closes.

The unique feature of the sealing of Seam is by seal ring which completely makes it leak proof under automatic pressure exerted by spring rings.

The main body is splitted in 2 halves manufactured out of Ductile Iron Castings. The body has holes for fixing the valve with pipelines very conveniently. The valve is a slim body light weight construction for easy and reliable working.

Our design construction on the main body is for better sealing incorporated by special elastomer resiliency.

PTFE Coated Fiber Glass Fabrics, Tapes & Belts

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PTFE Coated Fiber Glass Fabrics, Tapes & Belts



The exclusive properties of these PTFE Coated Fiber-Glass products mainly cloth, tapes, belts, threads etc., especially the ability to withstand high temperature conditions, the excellent heat transfer and non-stick characteristics make it an indispensable component across various industries. Technologically advanced industries like defence, space research, aircrafts and missiles are premium markets for these special products. The food and confectionery industries, which use plastic poly-pack packing, need it for products as diverse as milk, ghee, oil, biscuit, soft drinks etc. with modern dairies making for a sizeable market segment. Personal care products like soaps, detergents, shampoos, blades etc. also need their products. The textile industry uses it for covering drying cylinders, exit and entry curtains over drying ovens etc. in the chemical industry, where protective clothing is yet another use area. These products also find application in woven sacks, bags and shrink packaging. And this end-user club goes on expanding as newer industries of these products get in tune with the various applications.

PTFE (POLY TETRA FLUORO ETHYLENE) TEFLON™