

INVENTRO POLYMER

Ability to define

	<p>P.T.F.E Molded Rod Ram Extruded Rod</p>	<p>O.D. 12.5MM-300MM O.D. x 300 MM Length. O.D. 6 MM - 100 MM O.D. X 1000 MM Length.</p>
	<p>P.T.F.E Molded Sheet</p>	<p>1.5MM-25MM Thick with 300MM W x 300 MM or 400MM, 450 MM, 500 MM, 600 MM, 900 MM, 1000 MM and as per customers specification.</p>
	<p>P.T.F.E Skived Sheet</p>	<p>0.2MM-3MM Thick with 300MM, 450MM, 600MM, 1000MM, 1200MM, 1500MM width and in continuous length of 10-50 meters.</p>
	<p>P.T.F.E Molded Bush</p>	<p>As per customers specification in all Sizes</p>
	<p>P.T.F.E/FILLED Grade Bellows</p>	<p>For Mechanical seal and for Expansion Compensation, Stoppers. in the size of 1" - 8" N.B. We also offer composite bellow like G.F.T + P.T.F.E + G.F.T, for mechanical seal purpose.</p>
	<p>P.T.F.E Envelop Gasket</p>	<p>Slit Type, Mill Type and Customers Specification used in Chemical Plants for long life Sealing Between two Flanges.</p>
	<p>P.T.F.E Spherical Balls</p>	<p>In the Size of 6-27MM dia with Grinding and Without Grinding Condition.</p>
	<p>P.T.F.E/FILLED Grade Bearings</p>	<p>Bearing, Thrust Washers, Split Bearings Expansion Bearing Pads for Bridges and Boilers.</p>
	<p>P.T.F.E Seals</p>	<p>Valve seats, "O", "U", "V" Ring Seals Piston Rod Seals, Sliding Ring seals.</p>
	<p>Piston Ring, Wear Ring Rider Ring</p>	<p>For Diff. Type of compressors. From 1" Dia to 36" Dia up to 75mm maximum C/S for any make compressor</p>
	<p>Special Components For Different Industries Material Various Filler Grade Like: Carbon, Bronze, Glass, Mos2, Colour Pigmented, Etc.</p>	

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PTFE (Teflon ®)

PTFE –an acronym for Polytetrafluoroethylene - is a high molecular weight polymer, one of the most versatile plastic materials known and useful for a large range of products for applications excluded to other materials. Commonly referred to as Teflon PTFE has extremely low coefficient of friction Main properties of our range of PTFE sheet, rod and tube are:

- High Heat Resistance
- High Resistance To Chemical Agents And Solvents
- High Anti Adhesiveness
- High Dielectric Properties
- Low Friction Coefficient
- Non-Toxicity.

PTFE is generally considered a thermoplastic polymer; at 327°C it maintains a very high viscosity, thus requiring particular transformation techniques for manufacturing of finished and semi-finished goods. PTFE can be employed at any temperature from - 200°C to +260°C For more detailed technical information for PTFE click here Choose material grade

Virgin PTFE

This virgin grade PTFE, and its advanced properties make it an ideal choice of material for a wide range of applications - particularly those requiring high temperature, chemical resistance and excellent slip-stick performance

Available colours: White

Available to buy in: Sheet: 0.25mm to 80mm thick Rod: 4mm to 300mm diameter Tube: various OD x ID diameters

25% Glass Filled PTFE

PTFE is reinforced with 25% glass fibres. The added glass fibre improves the wear properties and, to a minor degree, also the deformation strength under load while leaving substantially unchanged the electrical and chemical characteristics. However, it is important to remember that glass, has a rather poor resistance against alkalis and is easily attacked by hydrofluoric acid. The coefficient of friction is also slightly increased.

Available colours: Off-White

Available to buy in: Sheet: 1.5mm to 60mm thick Rod: 6mm to 200mm diameter Tube: limited range of OD x ID diameters

25% Carbon Filled PTFE

25% carbon is added to the PTFE, along with a small percentage of graphite. The carbon tends to improve - to a considerable degree - wear and deformation strength, whilst leaving the chemical resistance practically unchanged, substantially modifying the electrical properties

Available colour: Black

Available to buy in: sheet, rod and tube

Other Filled PTFE

Grades PTFE, because of the properties previously described, is used in many applications. Properties can be improved and/or modified by adding suitable fillers. The fillers most commonly used are: glass fibre, carbon, bronze or graphite, in form of powder intimately mixed with the PTFE; other fillers are: molybdenum bisulphide, metal powders, ceramics, metal oxides and mixtures of two or more additives.

Available colour: according to filler

Available to buy in: sheet, rod and tube

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MATERIAL DATA SHEET FOR TEFLON®

TYPICAL PROPERTIES OF TEFLON		
PROPERTY	ASTM Method	
Tensile Strength, 73 degrees	D638-52T	1,500 - 3,000 lb./sq.in
Elongation 73 degrees Fahrenheit	D638-52T	100-200%
Hardness, Durometer	D676-49T	D50-D60
Coefficient of linear thermal expansion per 73 - 100 degrees Fahrenheit	D696-44	5.5 X 10 to the -5 power
Thermal conductivity, 0.18 in	Cenco-Fitch	1.7 B.T.U./hr./sq. ft./ degrees Fahrenheit /in.
Heat-distortion temperature 66 lb./sq.in.	D6488-45T	250 degrees Fahrenheit
Dielectric strength, short time, 0.080 in.	D149-44	400-500 v/mil
Dielectric constant, 60 cycles - greater then 3,000 megacycles	D150-54T	2.1
Dissipation factor, 60 cycles - greater then 3,000	D150-54T	less then 0.0003
Water-absortion	D570-42	less then 0.01%
Flamability	D635-44	non-flamable
Specific Gravity	D792-50	2.1 - 2.2
Resistance to weathering	-	Unaffected by 25 yrs. exposure in Florida
Static or kinetic coefficient	-	0.04

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