



Manufacturer & Exporter of : P.T.F.E. Rods, Tubes, Sheets & Machined Components

SANGHVI
techno
PRODUCTS

ISO Certified : 9001 : 2008

About Us...

People

Our Management team has an experience and expertise of more than half decade in manufacturing different types of PTFE products.

Company

Sanghvi Techno Products, founded in 1998 is an ISO 9001 : 2008 Co., and one of the leading companies to manufacture PTFE products in INDIA.

Sanghvi Techno Products manufactures extruded and moulded PTFE rods, extruded PTFE tubes, moulded PTFE tubes, skived and moulded PTFE sheets, PTFE ready-cut and envelope gaskets, PTFE custom fabricated parts. Available in different virgin grade for specific application and filled compounds (glass-fiber, carbon, bronze, graphite, molybdenum disulfide, etc.).

We have in-house manufacturing facilities for above all products with annual production capacity of 1000MT, and comprehensive testing facility for qualification and acceptance test.

We have introduce and started to sell product with our brand name



in the market from 2013.

What distinguishes us from other PTFE manufacturer companies is the time and effort we dedicate to understand our business partner's needs.

Quality & Services...

Quality Policy

"We, at Sanghvi Techno Products committed for total customer satisfaction by supplying products that would meet and exceed requirements of our customers."

To achieve the above objectives we work with strict quality control manufacturing process and have in-house comprehensive testing facilities.

All operations follow the company's procedures as described in the Quality Manuals, Operating Procedures & Work Instructions etc.



PTFE

PTFE stands for Poly Tetra Fluoro Ethylene. PTFE is a thermoplastic member of the fluoropolymer family of plastics. Since it was discovered nearly 75 years ago, new industrial applications of PTFE are found every day. Thanks to its outstanding physical properties.

Properties

- One of the most thermally stable plastic materials, functions up to 260°C.
- Resistance to virtually all corrosive material
- Very low co-efficient of friction
- Non-stick, Non-flammable, Non-toxic
- Excellent dielectric properties
- Excellent tensile strength even at low temperatures
- Moisture and U. V. resistance
- Virgin PTFE is approved by the Food and Drug Administration for use in food, beverage, cosmetics and pharmaceutical industries
- PTFE has relatively poor resistance to gamma radiation

Applications

Main industrial application fields of PTFE are where corrosion, wear, friction, exposure to temperature extremes and sealing are critical factors in product performance.

PTFE is used extensively in many different industries like: chemical, petrochemical, valves, hydraulic and pneumatic, machine tools, electronics, electromechanical, automotive, pharmaceutical, medical, food, aerospace, rail etc.

PTFE Filled Compounds

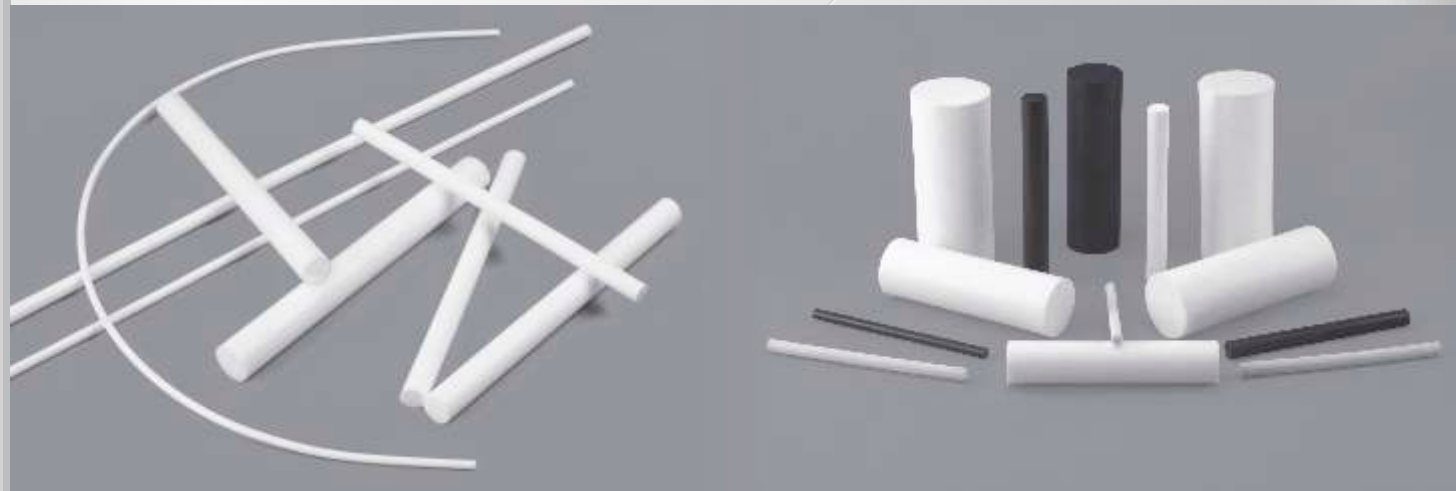
PTFE Compounds: Various fillers can be blended with the PTFE base resin to enhance certain properties e.g. glass fiber, carbon, graphite, molybdenum disulfide, bronze, etc.

A proper combination of inorganic and metallic fillers will further enhance the factors like creep resistance, wear resistance, thermal conductivity, arc resistance, dimensional stability & hardness.

Where parts need to retain a degree of elasticity, the compound used will generally be low on filler. Whenever there is a problem of friction under load, a high filler content should be used.

For specific applications, other grades can be processed upon request.





PTFE Extruded Rods

Standard Diameter (mm):

3, 4, 5, 6, 7.2, 8, 9.5, 10, 11.2, 12, 12.5, 13, 14, 15, 16, 18, 19, 20, 22, 25, 28, 30, 32, 35, 38, 40, 45, 50, 55, 60, 65, 70, 75, 80, 90, 95, 100

Standard Length (mm):

900, 1000

Made to Order:

Custom length and diameter available as per customer's requirement up to 200mm diameter.

PTFE Moulded Rods

Standard Diameter (mm):

16, 19, 20, 22, 25, 28, 30, 32, 35, 38, 40, 42, 45, 50, 55, 57, 60, 63, 65, 70, 75, 80, 82, 85, 90, 95, 100, 105, 108, 110, 115, 120, 125, 130, 135, 139, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 225, 250, 275, 300, 325, 350, 400

Standard Length (mm):

300

Made to Order:

Custom length and diameter available as per customer's requirement up to 1500mm diameter.

▶ Also available in PTFE filled compounds with fillers: glass fiber, carbon, graphite, bronze, molybdenum disulfide.

PTFE Extruded Tubes

Standard Sizes:

Outer Diameter (mm) : Wall Thickness (mm)

3.2, 4.8, 6.4, 8, 9.5, 11.1, : 0.8
12.7, 14.3

3, 4, 6, 8, 10, 12, 14 : 1.00

6.35, 8, 9.5, 11.1, 12.5, 16, : 1.5
19, 22.2, 25, 28

25, 32, 35, 42, 50, 63 : 3 to 15

Made to Order:

Custom length, OD & ID available as per customer's requirement.

PTFE Moulded Tubes

Standard Outer Diameter (mm):

19, 22, 25, 32, 35, 38, 40, 42, 45, 50, 52, 57, 63, 65, 70, 75, 82, 90, 95, 100, 108, 114, 125, 138, 150, 175, 200, 225, 250, 300

Inner Diameter (mm):

12.5, 16, 19, 25, 32, 38, 45, 50, 63, 76, 89, 100, 114, 125, 150, 175, 200, 225, 275

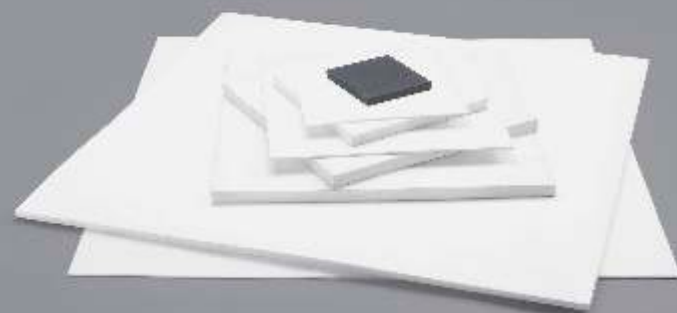
*outer diameter & inner diameter are co-related dimensions.

Made to Order:

Custom length, OD & ID available as per customer's requirement up to 1500 mm diameter.

▶ Also available in PTFE filled compounds with fillers: glass fiber, carbon, graphite, bronze, molybdenum disulfide.





PTFE Moulded Sheets

Standard Thickness (mm):

3, 4, 5, 6, 6.4, 8, 9.5, 10, 12, 12.5, 12.7, 15, 16, 19, 20, 22, 25, 30, 32, 35, 40, 45, 50, 55, 60, 63, 65, 70, 75, 80, 90, 100

Standard Width x Length (mm):

300 x 300, 400 x 400, 450 x 450, 500 x 500, 600 x 600, 900 x 900, 1000 x 1000, 1200 x 1200, 1500 x 1500

Made to Order:

Custom length, width and thickness are available as per customer's requirement.

- Also available in PTFE filled compounds with fillers: glass fiber, carbon, graphite, bronze, molybdenum disulfide.



PTFE Skived Sheets

Standard Thickness (mm):

0.1, 0.125, 0.2, 0.25, 0.3, 0.4, 0.5, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6

Standard Width (mm):

300, 450, 600, 1000, 1200, 1500, 2000

Made to Order:

Custom length, width and thickness are available as per customer's requirement.

- Also available in PTFE filled compounds with fillers: glass fiber, carbon, graphite, bronze, molybdenum disulfide.

PTFE Machined Components

PTFE machined components such as valves seat rings, roof packing, seal cover, plug valves sleeve, wedge rings, 'O' rings, piston rings, washers, bearings, balls, bushings, insulators, pipe joints, guides, breaks, piston rings, rider rings, hydraulic earth mover seals etc., and all types of components for non-lubricates compressors or any PTFE components as per customer's sample, specification and drawing.



Properties

Property	Unit	Test Method	Virgin PTFE	25% Glass Filled PTFE	15% Glass +5%MoS ₂ Filled PTFE	25% Carbon Filled PTFE	15% Graphite Filled PTFE	40% Bronze Filled PTFE
PHYSICAL								
Density	gm/cm ³	ASTM D-792	2.1 - 2.2	2.24 - 2.25	2.23 - 2.24	2.12 - 2.14	2.14 - 2.16	3.1 - 3.2
Water Absorption	24 hrs (%)	ASTM D-570	<0.01	0.013	0.015	0.05	0	0
MECHANICAL								
Tensile Strength	kgf/cm ²	ASTM D-638	210 - 350	125 - 200	150 - 220	120 - 155	150 - 200	125 - 150
Elongation of Break	%	ASTM D-638	250 - 400	200 - 300	220 - 320	100 - 150	175 - 225	100 - 175
Compressive Strength	kgf/cm ²	ASTM D-695	40 - 50	75 - 85	65 - 75	75 - 85	65 - 75	85 - 100
Compressive Modulus	kgf/cm ²	ASTM D-695	4000	7000	6000	8400	8000	8500
Deformation under load								
A. 24 Hrs. 23°C 113 kg/cm ²	%	ASTM D-621	15	11	12	7	8	6
B. 2 Hrs. 150°C 113 kg/cm ²			55	50	50	35	43	42
Flexural Strength	kgf/cm ²	ASTM D-790	57	42	50	96	60	85
Flexural Modulus	kgf/cm ²	ASTM D-790	3500-6300	16700	20000	11900	11000	14000
Impact Strength (+20°C)	cmkgf/cm ²	ASTM D-256	15	11	12	10	14	9
Hardness	Shore-D	ASTM D-2240	52 - 58	58 - 63	60 - 65	60 - 65	60 - 65	63 - 68
Co-efficient of Friction								
A. Dynamic P-7 kg/cm ² V-0.5 m/s	---	---	0.04 - 0.06	0.5 - 0.54	0.15 - 0.20	0.12 - 0.17	0.11 - 0.16	0.11 - 0.15
B. Static P-35 kg/cm ²			0.05 - 0.08	0.11 - 0.13	0.08 - 0.01	0.09 - 0.11	0.08 - 0.10	0.08 - 0.10
Brittleness Temp. at Atm. Pressure	°C	---	-200					
THERMAL								
Melting Temperature	°C	ASTM D-3418	335					
Use Temp. at Atm. Pressure	°C	---	-250 to +260					
Thermal Conductivity	10 ⁻⁴ cal/cm S°C	Cenco Fitch	6	9	9	13	14	17
ELECTRICAL								
Dielectric Strength	Kv/mm	ASTM D-149	24	12	16	2	2	Conductive

Note : 1) Data quoted are average values & may vary with source and grade of raw material. 2) Values may be used for design with consideration of factor of safety. 3) Company do not accepts any responsibility of results obtained and infringement of any patents.

Exports to various countries across the globe...



"A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption in our work. He is the purpose of it. He is not an outsider in our business. He is part of it. We are not doing him a favor by serving him. He is doing us a favor by giving us an opportunity to do so."

- Mahatma Gandhi



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