




THE PTFE EXPERTS ARE HERE – QUALITY YOU CAN TRUST



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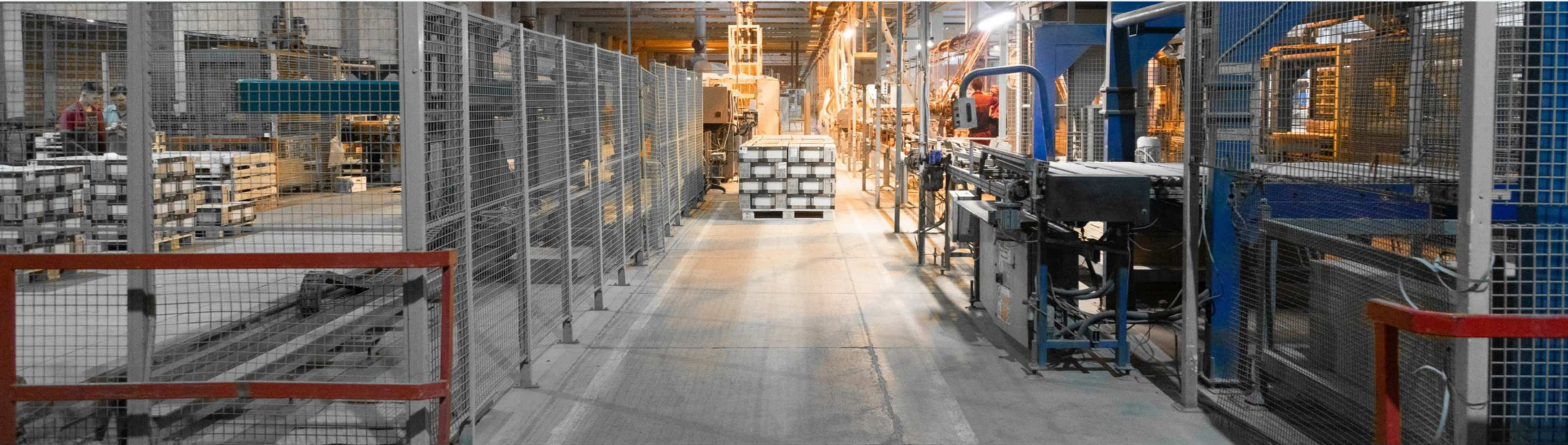
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ABOUT US

Fluoro Prime Industries has been a world leader in the Development, Manufacturing and Sales of engineering plastic. Headquartered in Ahmedabad, India, it is renowned for providing highest quality products and leads its markets through innovation of new materials.

VISION

To be the most consistent, customer centric organisation with passion driven employees, providing and maintaining quality control over the entire supply chain from formulation, compounding, extrusion, moulding, packaging of our products.



RELATIONSHIPS OVER VALUES

We value every customer right from small to huge retail and distributor chains irrespective of the business volumes.

ADAPTABILITY

We scale & adapt to continuous change in regional market conditions, right from products to business models.

TRANSPARENCY

We value every customer right from small to huge retail and distributor chains irrespective of the business volumes.

SIMPLICITY

We value every customer right from small to huge retail and distributor chains irrespective of the business volumes.



PRODUCT LIST



PTFE BUSHES

AVAILABLE IN FILLED GRADES (BFT, GFT, CFT).
DIAMETER 10MM TO 400MM AND LENGTH CAN
ALSO MANUFACTURE TAILOR MADE ANY
CUSTOM SIZE.



PTFE RINGS

AVAILABLE IN FILLED GRADES (BFT, GFT, CFT).
WE CAN MANUFACTURE
PTFE SEAT RINGS, O RINGS, BONET RINGS,
V RING SET, PLAIN RINGS.



PTFE RODS

AVAILABLE IN FILLED GRADES (BFT, GFT, CFT).
5MM TO 300MM DIA AND LENGTH-
300,600,1000, ALSO MANUFACTURE AS PER
CLIENT'S REQUIREMENT



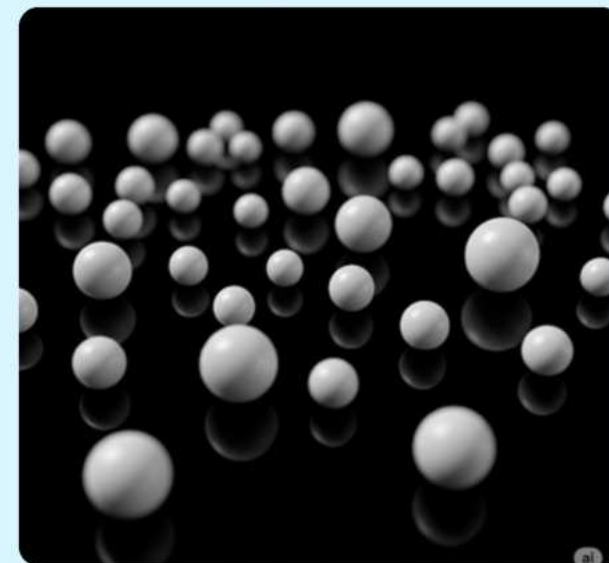
PTFE SKIVED SHEET

0.1 MM THK TO 50MM THK, WIDTH-
300,600,1000,1200,1500,2000,3000



PTFE MOULDED SHEET

WE CAN MANUFACTURE AS
PER CLIENT'S REQUIREMENT.



PTFE BALLS

WE HAVE AVAILABLE
ALL STANDARD SIZES IN PTFE
BALLS



PTFE WASHERS

WE HAVE AVAILABLE ALL STANDARD SIZES
IN PTFE WASHERS



PTFE GASKETS

1/2" INCHES TO 24" INCHES
AVAILABLE IN ALL STANDARD SIZES IN
CUT GASKETS



PRODUCT LIST



PTFE COMPONENTS

CAN MANUFACTURE AS PER CLIENT'S REQUIREMENT



PTFE MOULDED COMPONENTS

PTFE MOULDED COMPONENTS CAN MANUFACTURER AS PER REQUIREMENT.



PTFE BELLOWS

CAN MANUFACTURE AS PER CLIENT'S REQUIREMENT



CFT RINGS

CAN MANUFACTURE AS PER REQUIREMENT



CFT COMPONENTS

WE CAN MANUFACTURER AS PER CLIENT'S REQUIREMENT.



BFT COMPONENTS

CAN MANUFACTURE AS PER CLIENT'S REQUIREMENT



BFT MOULDED COMPONENTS

CAN MANUFACTURE AS PER CLIENT'S REQUIREMENT



APPLICATIONS



VALVE INDUSTRY



PUMPS



OIL-REFINERY



CHEMICAL INDUSTRIES



AUTOMOBILE INDUSTRY



FOOD INDUSTRY



TEXTILE INDUSTRY



HYDRAULICS INDUSTRY



AEROSPACE INDUSTRIES



AGROCHEMICAL INDUSTRY



PHARMA INDUSTRY



DEFENCE INDUSTRY

Technical Data Sheet – TDS

Physical properties of Virgin PTFE & Filled Grade of PTFE are dependent upon many factors such as Grades of PTFE – Conventional, Modified PTFE or Filled PTFE, Particle size of resin – Fine Cut or Coarse, Particle Shape of Resin – Spherical, Flake, Irregular, Type & content of filler, Manufacturing Process – Compression Molding, Ram Extrusion, Isostatic, Paste Extrusion. Due to this – Physical Properties of PTFE & Filled PTFE Products – have the wide range of Values:-

Sr. No.	Property	Unit	Test Method	Virgin PTFE	Chemically Modified PTFE	15% Glass Filled PTFE	25% Glass Filled PTFE	5% Glass +5% MoS2 Filled PTFE	15% Glass +5% MoS2 Filled PTFE	25% Carbon / 23% Carbon + 2% Graphite Filled PTFE	35% Carbon / 33% Carbon + 2% Graphite Filled PTFE	15% Graphite Filled PTFE	40% Bronze/ TSQ Filled PTFE	40% Bronze + 5% MoS2 Filled PTFE	60% Bronze Filled PTFE	55% Bronze + 5% MoS2 Filled PTFE													
				1	2	3	4	5	6	7	8	9	10	11	12	13													
1	Density	gm / cc	ASTM D-792	2.1 – 2.2	2.15 – 2.2	2.15– 2.22	2.22– 2.25	2.20 – 2.24	2.20– 2.24	2.0 – 2.2	2.0 – 2.14	2.10– 2.16	3.0 – 3.2	3 – 3.2	3.8 – 4.0	3.8 – 4													
2	Tensile Strength	kgf/cm ²	ASTM D-638	210 – 375	300 – 325	180– 260	125– 200	175– 250	150– 220	125–200	100– 175	150– 200	125– 225	125-225	100– 200	100-200													
3	Elongation of Break	%	ASTM D-638	250 – 400	400 – 450	225-325	200-300	200-300	220-320	80–150	100-150	150-250	200-350	200-350	150-300	150-300													
4	Compressive Strength	kgf/cm ²	ASTM D-695	40-50	45-55	65-75	75-85	60-70	65-75	75–85	80-90	65-75	85-100	80-95	115-125	115-125													
5	Deformation under load (Max.)																												
a	2 Hrs. 23 ^o C 113 kgf	%	ASTM D-621	12	3.5	10	9	11	10	5	4	6	5	5	4	4													
b	24 Hrs. 23 ^o C 113 kgf			15	5	12	11	13	12	12	7	6	8	6	6	5	5												
c	Permanent			8	2.5	7.5	7	8.5	7.5	7.5	3.5	3	4.5	3	3	2.5	2.5												
d	2 Hrs. 150 ^o C 113 kgf			55	40	52	50	52	50	50	35	30	43	42	42	40	40												
6	Impact strength	J/cm	ASTM D-256	1.4 – 1.5	1.6 – 1.75	1.2 – 1.3	1.0 – 1.1	1.25 – 1.35	1.2 – 1.3	0.7 – 0.8	0.6 – 0.7	0.8 – 0.9	0.9 – 1.0	0.9 – 1.0	0.8 – 0.9	0.85 – 0.95													
7	Hardness	Shore D	ASTM D-2240	58 – 62	56 – 62	58 – 62	58 – 63	60 – 65	60 – 65	60 – 65	60 – 65	60 – 65	62 – 66	62 – 66	64 – 68	64 – 68													
8	Coefficient of Friction		ASTM-D-1894							-																			
a	Dynamic P-7 kg/cm ² V-0.5			0.04-0.06	0.02-0.03	0.31-0.37	0.5-0.54	0.15-0.20	0.15-0.20	0.12-0.17	0.13-0.18	0.11-0.16	0.11-0.15	0.1-0.14	0.12-0.16	0.11-0.14													
b	Static P-35 kg/cm ²			0.05-0.08	0.04-0.06	0.01-0.12	0.11-0.13	0.08-0.01	0.08-0.01	0.09-0.11	0.01-0.12	0.08-0.10	0.08-0.10	0.075-0.09	0.08-0.10	0.07-0.09													
9	Wear Rate (Max.)	gm/s	ASTM-G-137	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01													
10	Water Absorption (Max.)	%	ASTM D-570	0	0	0.015	0.013	0.015	0.015	0	0	0	0	0	0	0													
11	Continuous Service Temperature	^o C	ASTM-D-648	+260	+260	+260	+260	+260	+260	+260	+260	+260	+260	+260	+260	+260													
12	Heat Resistance (Max.)	%	ASTM-D-648	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01													
13	Coefficient of Linear Thermal Expansion– 10 ⁻⁶ X	%	ASTM D-696	250 – 275	250 – 275	240 – 265	235 – 255	245 – 270	240 – 265	225 – 250	215 – 240	240 – 265	200 – 225	200 – 225	175 – 200	175 – 200													
14	Linear Thermal Expansion (Max.)			A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R						
a	30 – 150 ^o C	%	ASTM D-696	1.5	1.5	1.5	1.5	1.5	1	1.5	0.7	1.5	1	1.5	1	1.2	1	1.1	0.9	1.3	1	1.15	0.95	1.15	0.95	1.1	0.9	1.1	0.9
b	30 – 200 ^o C			2.4	2.3	2.4	2.3	2.3	1.8	2.2	1	2.3	1.8	2.3	1.8	1.9	1.5	1.8	1.4	2	1.7	1.85	1.55	1.85	1.55	1.8	1.5	1.8	1.5
c	30 – 250 ^o C			3.4	3.6	3.4	3.6	3.3	2.2	3.2	1.4	3.3	2.2	3.3	2.2	2.7	2.4	2.5	2.3	3	2.5	2.55	2.25	2.55	2.25	2.5	2.2	2.5	2.2
15	Dielectric Strength	Kv/mm	ASTM D-149	22 – 24	30 – 35	15 – 16	11 – 12	15 – 16	15 – 16	1 – 2	1 – 2	1 – 2	Conductive	Conductive	Conductive	Conductive													
16	Dimensional stability																												
a	Length	%	ASTM-D-1710	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3													
b	Diameter	%		0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1	0.5 – 1													
17	Chemical Resistance (Max.)																												
a	Permeability	%	ASTM-D-543	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01													
b	Dissolution	%		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01													
c	PTFE is chemically inert & unaffected by all known chemicals except molten or dissolved alkali metals–Sodium; Potassium; Rubidium; Cesium; Francium & Fluorine gas, certain fluorine compounds & complexes at elevated temperatures. Filled PTFE has inferior chemical resistance depending upon the particular filler.																												
	The physical properties of Standard & Non-standard filled grade composition not mentioned in above table are to be referred on the basis of Material Test Certificate issued by Raw Material Supplier / Manufacturer. Data quoted are average values only & should not be used for designed purpose.																												
	Company has in-house test facility / Laboratory to test above properties. The testing equipments are calibrated as per procedures laid down in QMS-ISO-9001:2008, having traceability with NPL. The test procedures are self designed, similar to above referred ASTMs.																												