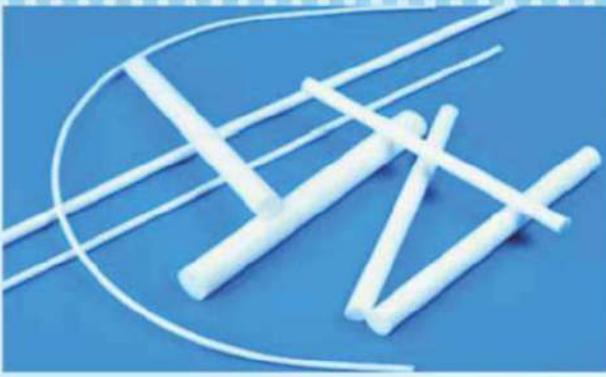


PTFE EXTRUDED ROD



Diameter : 3mm to 300 mm (Standard).
Length : 900mm to 1000 mm (Standard).
Made to Order : Specific Length & Diameter available as per customer's requirement.
Material : Virgin PTFE.
Specification No. : ASTM - D 1710.

PTFE EXTRUDED TUBE



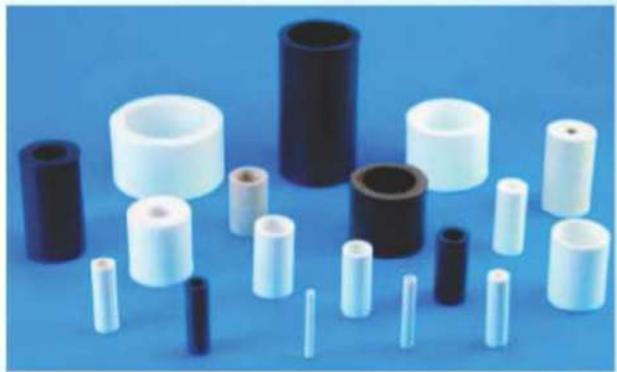
Diameter : 20mm to 200 mm (Standard).
Inner Diameter : 10mm to 175 (Standard).
Length : 1000 mm (Standard).
Made to Order : Specific O.D. & I.D. available as per customer's requirement.
Material : Virgin PTFE.
Specification No. : ASTM - D 3295.

PTFE MOULDED ROD



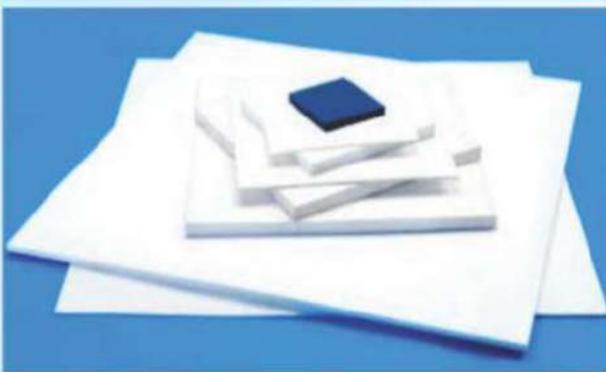
Diameter : 12.5mm to 400mm (Standard).
Length : 300 mm (Standard).
Made to Order : Specific Length & Diameter available as per customer's requirement.
Filler : Glass / Carbon / Graphite / Bronze / Bronze + Mos2.
Material : Virgin PTFE.
Specification No. : ASTM - D 1710.

PTFE MOULDED BUSH



Outer Diameter : 12.5mm to 300mm (Standard).
Inner Diameter : 6mm to 275 mm (Standard).
Length : 100 mm (Standard).
Made to Order : Specific O.D. & I.D. available as per customer's requirement.
Filler : Glass / Carbon / Graphite / Bronze / Bronze + Mos2.
Material : Virgin PTFE & Filled PTFE.
Specification No. : ASTM - D 3295.

PTFE MOULDED SHEET



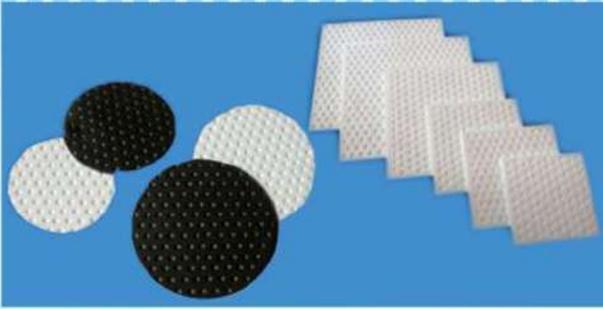
Standard Size : 300 x 300mm, 450x450mm, 600x600mm, 1000x1000mm, 1200x1200mm, 1500x1500mm 1000 x 2000mm.
Thickness : 3 mm to 100 mm.
Made to order : Specific Length, Thickness & Width available for customers requirement.
Material : Virgin PTFE & Filled PTFE.
Filler : Glass / Carbon / Graphite / Bronze / Bronze + Mos2.
Specification No.: ASTM - D 3293.

PTFE SKIVED SHEET



Standard Size : 300 x 300mm, 450 x 450mm, 600 x 600 mm, 1000 x 1000mm, 1200x1200mm, 1500 x 1500mm, 1000 x 2000mm, 2000 x 2000mm.
Thickness : 0.1mm to 5.0 mm (Standard).
Made to order : Specific Length, Thickness & Width available for customers requirement.
Material : Virgin PTFE & Filled PTFE.
Filler : Glass / Carbon / Graphite / Bronze / Bronze + Mos2.
Specification No.: ASTM - D 3308.

PTFE DIMPLE SHEET BRIDGE BEARING PAD



Standard Packing : PTFE Bridge Bearing Pad also known as PTFE Dimple Sheet, mostly used in fastly growing infrastructural projects like Metro Projects, Railway Bridges, Fly-overs etc.

Range : As per customer's specification and drawing.

Available Grades :

- » Virgin PTFE
- » 15 To 25% Glass Filled PTFE
- » 15% Graphite Filled PTFE
- » 5 to 15% Aluminium Oxide Filled PTFE
- » 5 to 10% Mica Filled PTFE
- » 15% + 5% Glass + MOS2 Filled PTFE
- » 55% + 5% Bronzed + Molybdenum Disulphide Filled PTFE
- » Special Grade as per customer specification
- » 15% Peek PTFE
- » 25 To 35% Carbon Filled PTFE
- » 40 to 60% Bronzed Filled PTFE
- » 5 to 10% Stainless Steel Filled PTFE
- » Pigmented PTFE

PTFE EXPANDED SHEET



Standard Size & Thickness : 1500 mm (W) × 1500 mm (L) × 0.5 mm (Thick), 1500 mm (W) × 1500 mm (L) × 1.0 mm (Thick), 1500 mm (W) × 1500 mm (L) × 1.5 mm (Thick), 1500 mm (W) × 1500 mm (L) × 2.0 mm (Thick), 1500 mm (W) × 1500 mm (L) × 3.0 mm (Thick), 1500 mm (W) × 1500 mm (L) × 5.0 mm (Thick), 1500 mm (W) × 1500 mm (L) × 6.0 mm (Thick).

Made to order : Specific Length, Thickness & Width available as per customers requirement.

Expanded PTFE MultiTex Sheet® is a high quality gasket sheet made of pure multidirectional expanded PTFE to cut or punch gaskets. In a special process PTFE is stretched in different directions and is so getting a very high strength length and cross. Creep tendency under force and temperature is considerable reduced compared to other PTFE gasket sheets. The soft material fits very well on uneven surfaces. Material with enough thickness can compensate even big gaps of uneven flanges, as they appear on glass lined steel flanges or at corrosive damages.

Pressure - Full Vacuum to 200 bar.

Temperature -200 deg C to +230 deg C.

Approvals / Certifications - BAM Tested for use with Oxygen.

TA-Luft, US FDA, EC 1935/2004, TUV, USP Class 10 certification.

PTFE MACHINED COMPONENT



PTFE & Filled Grade available in 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.

TURSITE SHEETS & STRIP



Tursite known as various names like Bearing linear / Trexon etc. Extensively used in mechanical machine tool manufacturing industries, Hydraulics & Pneumatic Manufacturing Industries.

Made to Order : Specific Size & Thickness Available as per customer's requirement.

Available Grades :

- » Virgin PTFE
- » 15 To 25% Glass Filled PTFE
- » 15% Graphite Filled PTFE
- » 5 to 15% Aluminium Oxide Filled PTFE
- » 5 to 10% Mica Filled PTFE
- » Pigmented PTFE
- » 55% + 5% Bronzed + Molybdenum Disulphide Filled PTFE
- » 15% Peek PTFE
- » 25 To 35% Carbon Filled PTFE
- » 40 to 60% Bronzed Filled PTFE
- » 5 to 10% Stainless Steel Filled PTFE
- » 15% + 5% Glass + MOS2 Filled PTFE
- » Special Grade as per customer specification

EXPANDED PTFE ADHESIVE TAPE



Standard Packaging	Width (mm)	5	5	7	10	12	14	17	19	20	20	20
	Thickness (mm)	2	3	2.5	3	4	3	5	5	5	3	5
Length (mtrs)	30	30	30	20	10	10	10	10	5	5	5	5
Width (mm)	25	25	25	25	30	30	40	40	45	50	55	70
Thickness (mm)	1	5	7	10	3	5	3	5	3	3	3	3
Length (mtrs)	10	5	5	5	5	5	5	5	5	5	5	5

Expanded PTFE adhesive TAPE : This expanded soft packing fills all the voids in uneven or damaged surfaces thereby giving perfect sealing. It is chemically inert and can be used with almost all chemicals. One side of the packing has an adhesive strip hence it is very easy to install. It is widely used in place of gasket. Recommended for sealing flanges, housings of pumps, compressors & gearboxes, manholes, heat exchanger, reactors, agitators, mixers, tank lids and many other such applications.

Pressure - Full Vacuum to 200 bar.

Temperature -240 deg C to +260 deg C.

Approvals / Certifications - US FDA 21 CFR 177.1550 (PTFE).

US FDA 21 CFR 175.105 (Adhesive Backing Tape).

PTFE PACKING



Standard Packing : 3mm to 25mm in Square & Round, Other sizes & specific lengths can be supplied as per customer's requirement.

Products Ranges: PTFE Universal Soft Packing, PTFE Graphite Soft Packing, Valve Seal, Pure Expanded Graphite Packing, Pure Carbon Packing, PTFE Packing, PTFE Graphited Packing, Aramid Packing, PTFE & PTFE Graphite Combination Packing, PTFE & Aramid Combination Packing, Hollow Core / Solid Core Packing, PTFE Putty / PTFE Graphite Putty.

PTFE TEFLON TAPE



Brand Name : Champion / Kohinoor / Crown / Cooper
Standard Size & Thickness : 1/2 inch, 3/4 inch, 1 inch x 12 meters available.
Made to order : Specific Length, Thickness & Width available for customers requirement.

CAF AND NON ASBESTOS INDUSTRIAL GASKET



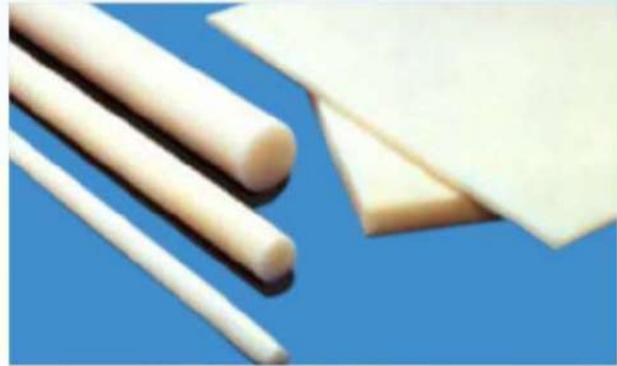
Brand Name : Champion / Spitmaan / Ferrolite / Uniklinger
Standard Sheet Size : 1500 x 1500mm, 1500 x 2000mm, 1500 x 4500mm, 2000 x 6000mm.
Standard Gasket Size : 1/2 inch To 24 inch as per class ASA #150 & ASA # 300.
Made to order : Available as per customers requirement and specification.

SPIRAL WOUND METALLIC



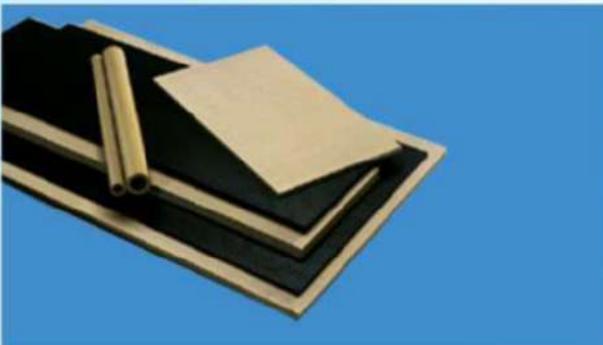
We manufacture **SPIRAL WOUND METALLIC GASKETS**, as per ASME B16.20.
Standard size : 1/2 inch To 24 inch as per class ASA#150 & ASA#300.
Made to order : Available as per customers requirement and specification.

PET ROD & SHEET



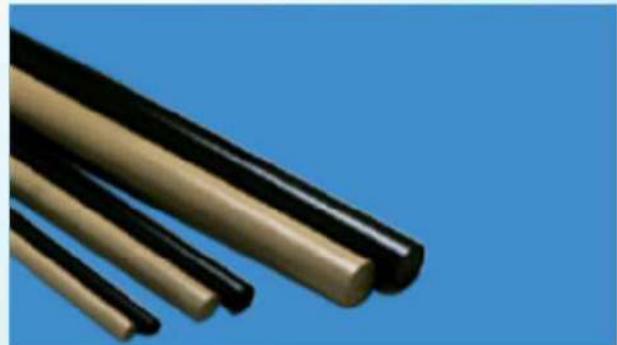
PET (Poly Ethylene Terephthalate)
 PET is a semi crystalline thermoplastic; used as a high performance polymer in various industries like conveyor industry, mechanical engineering, food processing, etc.
PET Sheet : Standard Size : Thickness: 6 mm to 50 mm; Sizes: 1 mtr W x 2 mtr L; 0.5 mtr W x 3 mtr L.
PET Rod : Standard Sizes: Diameter: 12 mm to 100 mm; Length: 1 to 3 mtr.
Features : High Wear Resistance, low coefficient of friction, high chemical resistance, good machinability, etc.

PEEK SHEET



PEEK (Poly Ether Ether Ketone) is a high performance engineering thermoplastic that offers chemical and water resistance similar to PPS, but can operate at higher temperatures. PEEK can be used continuously to 480°F (250°C) and in hot water or steam without permanent loss in physical properties. For hostile environments, PEEK is a high strength alternative to fluoropolymers. PEEK carries a V-0 flammability rating and exhibits very low smoke and toxic gas emission when exposed to flame.
Standard Size: Thk 8 mm to 25 mm; Size: 0.5 mtr x 1 mtr ; etc; Custom Sizes available on request. PEEK Sheets as per customer request.

PEEK ROD



PEEK (Poly Ether Ether Ketone) is a high performance engineering thermoplastic that offers chemical and water resistance similar to PPS, but can operate at higher temperatures. PEEK can be used continuously to 480°F (250°C) and in hot water or steam without permanent loss in physical properties. For hostile environments, PEEK is a high strength alternative to fluoropolymers. PEEK carries a V-0 flammability rating and exhibits very low smoke and toxic gas emission when exposed to flame.
Standard Size: Dia 6 mm to 120 mm; Length: 1 mtr ; Custom Sizes available on request Other Variants Available: 30% Glass Filled PEEK, 30% Carbon Filled PEEK, 15% PEEK filled PTFE, etc.

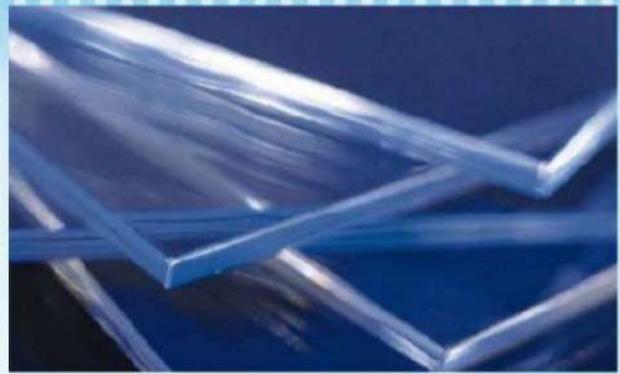
PVDF SHEET & ROD



PVDF (Poly Vinylidene Fluoride)

Available in Rod/ Sheet form in certain sizes only; It is currently Imported only; PVDF is used mainly for its excellent chemical resistance, machinability and wide range of applications PVDF is mainly used in the Chemicals and Semi Conductor Industry.

SOLID POLYCARBONATE SHEET



Solid Polycarbonate - Clear / Transparent Sheets offer the highest levels of glazing performance where transparency or tailored light transmission along with high impact strength is of vital importance. Their versatility makes them the ideal choice for glazing in hospitals, schools, sporting arenas and public infrastructure projects. They are available in transparent (compact sheets) & textured (embossed sheets) finishes.

Standard Size : Thk: 1 mm to 12 mm; Size: 1200 mm W x 2400 mm L; 2000 mm W x 3000 mm L.

Also available in UV (Ultra Violet) Protected and FR (Fire Retardant) Grade. Other Variants Available in Blue, Smoke Brown, Smoke Grey colours.

CAST NYLON ROD



Diameter: 6 mm to 255 mm; Length: 300 mm and 1000 mm

Nylon: Extruded, Unfilled - Sheet, Rod & Profiles The bearing and wear properties of Nylon make it one of the most widely used plastics in the world. Nylon is frequently used as a replacement for bronze, brass, aluminum, steel and other metals, as well as other plastics, wood, and rubber.

Features: High tensile strength and modulus of elasticity, High impact resistance, a high heat distortion temperature, Resists wear, abrasion, and vibration, Can withstand contact with chemicals, alkalies, dilute acids or oxidizing agents., Available in Natural, Black, Glass-Filled, etc, Nylon is NOT moisture Resistant.

CAST NYLON



Standard Size:

Indian make:

Thickness: 6 mm to 200 mm; Sizes: 300 mm W x 300 mm L; 1000 mm W x 1000 mm L.

Colours: Default - Natural White, Black.

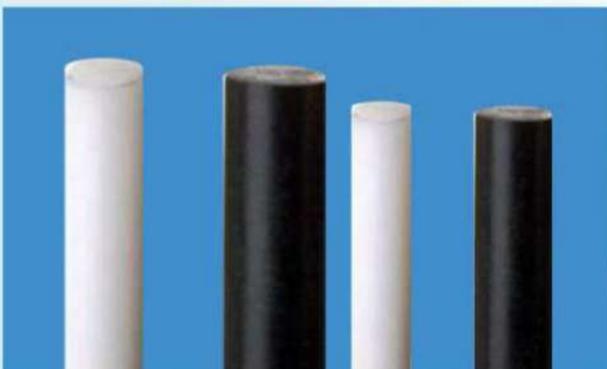
Imported make:

Thickness: 8 mm to 200 mm; Sizes: 1250 mm W x 2500 mm L, 1000mm W x 2000mm L.

Colours: Default - Natural White, Black, Blue.

Variants available: 30% Glass Filled Nylon, Nylon PA 66, 30% Glass Filled Nylon PA 66, etc We provide customized (special) sizes on request; Cast Nylon shapes are available in a wide range of sizes & grades. Their flexibility and performance characteristics have led to Nylons replacing bronze, brass, steel, and aluminum in various mechanical applications.

POM-POLYACETAL ROD



Polyacetal (POM) Rods : POM sheets, rods & tubes have many of the same characteristics of industrial metals such as brass, aluminum, zinc, and stainless steel. POM is a homopolymer acetal. Some of POM's comparable properties include stiffness, dimensional stability, impact resistance, and structural strength. Indian make.

Standard Size : Diameter: 12.5 mm to 140 mm; Length: 300 mm and 1000 mm; Available in Natural White, Black, OR Colour- as per your requirement; (subject to MOQ) Imported make.

Standard Size : Diameter: 12.5 mm to 200 mm; Length: 1000 mm; to 3000 mm Available in Natural White/ Black.

POLYACETAL POM SHEET



Polyacetal (POM) : Sheets, rods & tubes have many of the same characteristics of industrial metals such as brass, aluminum, zinc, and stainless steel. Some of Polyacetal's comparable properties include stiffness, dimensional stability, impact resistance, and structural strength.

Standard Size : Thickness: 6 mm to 100 mm; Sizes: 610 mm width x 1000 mm length; 1000 mm x 2000 mm length; 620 mm x 3000 mm length.

Colours : Default - Natural White, Black, Blue.

TECHNICAL DATA SHEET - TDS - PHYSICAL PROPERTIES OF PTFE AND FILLED PTFE

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	7	6	8	6	6	5	5													
c	Permanent			8	2.5	7.5	7	8.5	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	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.)		ASTM D-696	A	R	A	R	A	R	A	R	A	R	A	R	A	R												
a	30–150 ^o C	%		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													

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.