

NU-TECH ASSOCIATES

MANUFACTURERS & EXPORTERS OF PTFE & FILLED PTFE PRODUCTS

PTFE TEFLON, EPTFE GASKETS & SHEETS, GLAND PACKING

NON ASBESTOS GASKETS & SHEETS, METALLIC GASKETS,

P.U, UHMW PE, PVC CURTAINS, ENGINEERING PLASTICS







Diameter: 3mm to 500 mm (Standard)

Length: 900mm / 1000mm / 2000mm (Standard).

Made to Order: Specific Length & Diameter available as per

customer's requirement.

Material: Virgin PTFE, Modified PTFE & Filled Grade PTFE Specification No. :ASTM - D 1710.

Also Available as per customer requirement.



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, Modified PTFE & Filled Grade PTFE Specification No. :ASTM - D 3295.

Also Available as per customer requirement.

PTFE MOULDED ROD



Diameter: 12.5mm to 500mm (Standard).

Length: 300mm (L) to 1000mm (L)

Made to Order: Specific Length & Diameter available as per

customers requirement.

Filler: Glass / Carbon / Graphite / Bronze / Bronze + Mos2 / Peek + PTFE

Material: Virgin PTFE, Modified PTFE & Filled Grade PTFE

Specification No. :ASTM - D 1710.

Also Available as per customer requirement.

PTFE MOULDED BUSH / TUBES



Outer Diameter: 12.5mm to 2500mm OD Inner Diameter: 6mm to 2400mm ID

Length: 100 mm (Standard).

Made to Order: Specific O.D. & I.D. available as per customers

requirement.

Filler: Glass / Carbon / Graphite / Bronze / Bronze + Mos2 / Peek + PTFE

Material: Virgin PTFE, Modified PTFE & Filled Grade PTFE Specification No.: ASTM - D 3295.

Also Available as per customer requirement.

PTFE MOULDED SHEET / PLATE



Standard Size: 300 x 300mm, 450 x 450mm, 600 x 600mm, 1000 x 1000mm 1200 x 1200mm, 1500 x 1500mm, 1000 x 2000mm, 1200 x 2400mm

Thickness: 3 mm to 500 mm.

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

Material: Virgin PTFE, Modified PTFE & Filled Grade PTFE Filler: Glass / Carbon / Graphite / Bronze / Bronze + Mos2 / Peek + PTFE Specification No.: ASTM - D 3293.

Also Available as per customer requirement.

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. & Available in continuous roll form

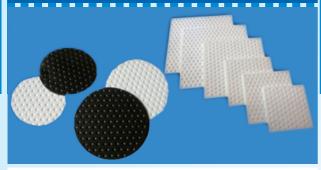
Thickness: 0.1mm to 10.0mm (Standard)

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

Material: Virgin PTFE, Modified PTFE & Filled Grade PTFE
Filler: Glass / Carbon / Graphite / Bronze / Bronze + Mos2 / Peek + PTFE

ation No.: ASTM - D 3308.

Also Available as per customer requirement.



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.

- » Virgin PTFE» 15 To 25% Glass Filled PTFE
- » 15% Peek PTFE» 25 To 35% Carbon Filled PTFE
- » 15% Graphite Filled PTFE
 » 5 to 15% Aluminium Oxide Filled PTFE
 » 5 to 10% Stainless Steel Filled

- » 5 to 10% Mica Filled PTFE
- » Pigmented PTFE
- » 15% + 5% Glass + MOS2 Filled PTFE » 55% + 5% Bronzed + Molybdenum Disulfide Filled PTFE
- » Special Grade as per customer specification

Also Available as per customer requirement.

PTFE EXPANDED SHEET / PLATE



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 customers requirement.

Expanded PTFE: 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

sure - Full Vaccum 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.

Also Available as per customer requirement.

PTFE MACHINED COMPONENTS



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. *Made to Order:* Specific O.D. & I.D. available as per customer's requirement.

Material: Virgin PTFE, Modified PTFE & Filled Grade PTFE Also Available as per customer requirement.

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

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

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

Also Available as per customer requirement.

EXPANDED PTFE ADHESIVE TAPE



	Width (mm)	5	5	7	10	12	14	14	17	19	20	20	20
	Thickness (mm)	2	3	2.5	3	4	3	5	6	5	3	5	7
Standard	Length (mtrs)	30	30	30	20	10	10	10	10	5	5	5	5
Packaging													
Fackaging	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

ed 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 Vaccum 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).

Also Available as per customer requirement. **GLAND PACKING**



dard Packing: 3mm to 40mm in Square & Round, Other sizes & specific lengths can be supplied as per customers requirement

oducts Ranges: PTFE Universal Soft Packing, PTFE Graphite Soft Packing, Valve Seal, Pure Expanded Graphite Packing, Pure Carbon Packing, PTFE Braphite Solt Packing, PTFE Bracking, PTF

Available as per customer requirement.

PIFE TEPLON 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.

Also Available as per customer requirement.

CAF AND NON ASBESTOS INDUSTRIAL GASKET



Brand Name: Champion / Spitmaan / Ferrolite / Uniklinger / Superlite 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. Special size Gaskets cutting available.

Made to order: Available as per customers requirement and specification.

Also Available as per customer requirement.

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. ASA #600 & ASA# as per customers standard we can provide.

Made to order: Available as per customers requirement and specification.

Also Available as per customer requirement.

UHMW-PE SHEETS & RODS





UHMW-PE is available in sheets, rods, sections & components. **UHMW-PE** Sheets:

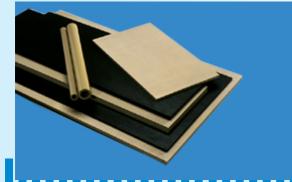
(1) 2000mm x 1000mm x 6 to 100mm thk.

(2) 1000mm x 1000mmx100 to 175mm thk.

UHMW-PE Rods: 25mm to 200mm in 300-1000 lenght

COLOURS: Natural White, Black, Green, Blue. **Also Available as per customer requirement.**

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

Also Available as per customer requirement.

Sizes available on request. PEEK Sheets as per customer request.

PEEK ROD

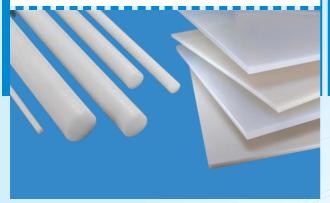


PEEK (Poly Ether Ether Ketone) is a high performance engineering thermoplastic that offers chemical and water resistance similar to PPS, but can operate at higher temperatures. PEEK can be used continuously to 480°F (250°C) and in hot water or steam without permanent loss in physical properties. For 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.

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.

Also Available as per customer requirement.

PVDF SHEET & ROD



Standard Size: 1000(W) x 2000mm (L), 1500(W) x 3000mm(L),

PVDF (Poly Vinylidene Fluoride)

Available in Rod/ Sheet form in certain sizes only; It is currently Imported only:

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.

Also Available as per customer requirement.

CAST NYLON ROD



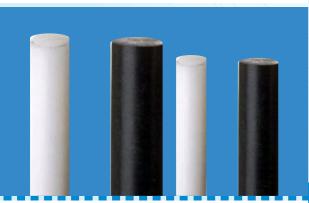
Diameter: 6mm to 1000mm; Length: 300mm, 1000mm, 1200mm

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.

Also Available as per customer requirement.

POM-POLYACETAL (DELRIN) 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

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.

Also Available as per customer requirement.

SILICONE PRODUCTS RANGE



Silicone

Silicone Transparent Tubings, Silicone Transparent Braided Hose, FKM Cords and Tubes, Thermoplastic elastomer tubes (TPE Tubes), Silicone Vacuum and High Pressure Hose, Silicone Autoclave Gasket, Silicone Infatable seals, Silicone Antistatic Gasket, Silicone Sifter sievesm, Silicone bellows.

Tri – clover gasket & Orings – Silicone, FKM, EPDM.
Rubber Sheets – Silicone, EPDM, FKM.
Solid and Sponge Cords (Square and Round) – Silicone, FKM, EPDM.
Extruded Profiles – Silicone, FKM, EPDM.
FEP Encapsulated Orings, Isolater gasket Diaphragms

Also Available as per customer requirement.

CAST NYLON



1000 mm W x 2000 mm L

Colours: Default - Natural White, Black, Blue

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 characterics have led to Nylons replacing bronze, brass, steel, and aluminum in various mechanical applications.

Also Available as per customer requirement.

POLYACETAL POM (DELRIN) 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.

Also Available as per customer requirement.

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

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		25% Glass Filled PTFE	5% Glass +5% MoS2 Filled PTFE	15% Glass +5% MoS2 Filled PTFE	25% Carbon Filled PTFE 23% Carbon + 2% Graphite	35% Carbon Filled PTFE 33% Carbon + 2% Graphite	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 ⁰ C 113 kgf	%		12	3.5	10	9	11	10	5	4	6	5	5	4	4
b	24 Hrs. 23 ⁰ C 113 kgf		ASTM D-621	15	5	12	11	13	12	7	6	8	6	6	5	5
С	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°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			7				-						
а	DynamicP-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	°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 R	A R	A R
a	30 – 150 ⁰ 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 ⁰ C	70	AOTNI D-030	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
С	30 – 250 ⁰ 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.)															
а	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
	DTEE is shamically inset 8 unoffeeted by all know			المالية بالمسائد	al:tala Cad	lines Datasais	na Dalahira	Casium Fran	anima O Flore	in a man and in fi	uarina aamnaunda	0	4 alamata d tamas	Filled	DTEE Lastin	Contraction of the

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.





GST No.: 27BPCPS5164R1Z1



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