

**PTFE SHEET/TEFLON SHEET** Style No: TPS

PTFE products include sheet, Tube, Rod, Film and gaskets etc., they are molded, skived or cut from 100% virgin PTFE. It has the best chemical corrosion resistance among known plastics. Without being aging, lowest friction coefficient, wear resistance.

The unloaded operating temperature range is -180~+260°C.

**1.PTFE Molded Sheet**

PTFE molded sheet is manufactured by molding with PTFE granular resin. PTFE is the most chemical resistance of all known plastics. It does not age. It has the lowest coefficient of friction of all known solid materials.

**Usage of the product**

It can be used to make corrosion-resistant liner, seal, lining and gasket, scrap, guide rail, dielectric material for different .



**Physical Properties**

Item	Standard
Tensile strength	≥ 15.0 Mpa
Ultimate elongation	150 ~ 400 %
Density	2.2 ~ 2.3 g/cm <sup>3</sup>
Dielectric strength	10 kv/mm
Resistance of surface	3.7 x 10 <sup>16</sup> Ω

Width/mm	Thickness/mm	Tolerance /mm
250 ~1200	3 ~ 100	± 0.20 ~ ± 0.50

**2.PTFE Skived Sheet**

PTFE skived sheet is manufactured by PTFE resin is first molded into work -blank and skiving.

**Usage of the product**

PTFE skived sheet are used in reaction kettle, storage tank, valve, container, liner and gasket which work under all kinds of corrosive dielectric. It also can be used as liner of anticorrosive pipes, oilless lubricator and adhesive material for sliding orbit of machines and dielectric at any frequencies.

**Physical Properties**

Item	Standard
Tensile strength	≥ 15.0 Mpa
Ultimate elongation	≥ 150 %
Density	2.2 ~ 2.3 g/cm <sup>3</sup>
Dielectric strength	10 kv/mm
Resistance of surface	3.7 x 10 <sup>16</sup> Ω

Width/mm	Thickness/mm
10 - 2700	0.1 - 7.0



**General Size**

Thickness (mm)	Thickness Tolerance(mm)	Size(mm)	Size Tolerance(mm)
0.5	±0.10	1000 x 1000	±10
1.0	±0.15	1000 x 1000	±10
1.5	±0.20	1000 x 1000	±10
2.0	±0.20	1000 x 1000	±10
3.0	±0.30	1000 x 1000	±10
4.0	±0.30	1000 x 1000	±10
5.0	±0.30	1000 x 1000	±10
6.0	±0.30	1000 x 1000	±10
0.5	±0.10	1200 x 1200	±10
1.0	±0.15	1200 x 1200	±10
1.5	±0.20	1200 x 1200	±10
2.0	±0.20	1200 x 1200	±10
3.0	±0.30	1200 x 1200	±10
4.0	±0.30	1200 x 1200	±10
5.0	±0.30	1200 x 1200	±10
6.0	±0.30	1200 x 1200	±10
0.5	±0.10	1500 x 1500	±10
1.0	±0.15	1500 x 1500	±10
1.5	±0.20	1500 x 1500	±10
2.0	±0.20	1500 x 1500	±10
3.0	±0.30	1500 x 1500	±10
4.0	±0.30	1500 x 1500	±10
5.0	±0.30	1500 x 1500	±10
6.0	±0.30	1500 x 1500	±10

**Inquiry / Order example**

Size	Qty
0.5mm x 1000mm x 1000mm	20sheets
2.0mm x 1500mm x 1500mm	20sheets

**EXPANDED PTFE SHEET** Style No: TEPS

**Expanded PTFE Sheet** made from 100% PTFE, developed by a highly specific treatment of PTFE Fluorocarbon. It has a high tensile strength, flexibility, hardness, chemical and thermal resistance, making it an excellent material for gasket seals in the most extreme conditions. Because it is soft and conformable prior to compression, EPTFE requires low stress to seal, making it ideal for fragile or lightly loaded flange assemblies such as those made from FRP, aluminum, graphite and glass-lined steel. The extremely high tensile strength of EPTFE gaskets also protects against overcompression. Regularly installed on ANSI pipe flanges and pressure vessels, these gaskets can be used in applications up to 3,000 psi(210 bar). They effectively seal between flanges that are rough or damaged, too. A positive, reliable seal is routinely achieved on all flange materials and in all processing conditions under 600° F (315° C).

**Characteristic**

- 1.Excellent chemical resistance.
- 2.Soft.flexible.light clamping force to seal.
- 3.Easy cutting.normal scissors or knives only can be processed.
- 4.High-intensity.fibrosis,3D structure.which greatly reduce the cold flow creep.

**Physical Properties**



Item	Standard
Length Tensile Strength	17.0 Mpa
Cross Tensile Strength	27.0 Mpa
Compressive Strength	14.7 Mpa
Max Compressive Strength	20 Mpa
Density	0.65-0.95g/cm <sup>3</sup>
Temperature	-240 to 260°C
Compressibility	45%
Recovery	15%
Leakage	0.1~0.2 x 10 <sup>-4</sup> cm <sup>3</sup> /s

**General Size**

Thickness (mm)	Thickness Tolerance(mm)	Size(mm)	Size Tolerance(mm)
0.5	±0.10	1500 x 1500	±10
1	±0.15	1500 x 1500	±10
1.5	±0.20	1500 x 1500	±10
2	±0.20	1500 x 1500	±10
3	±0.30	1500 x 1500	±10
4	±0.30	1500 x 1500	±10
5	±0.30	1500 x 1500	±10
6	±0.30	1500 x 1500	±10

**Inquiry / Order example**

Size	Qty
0.5mm x 1500mm x 1500mm	10sheets