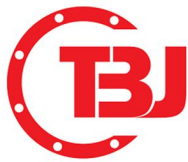
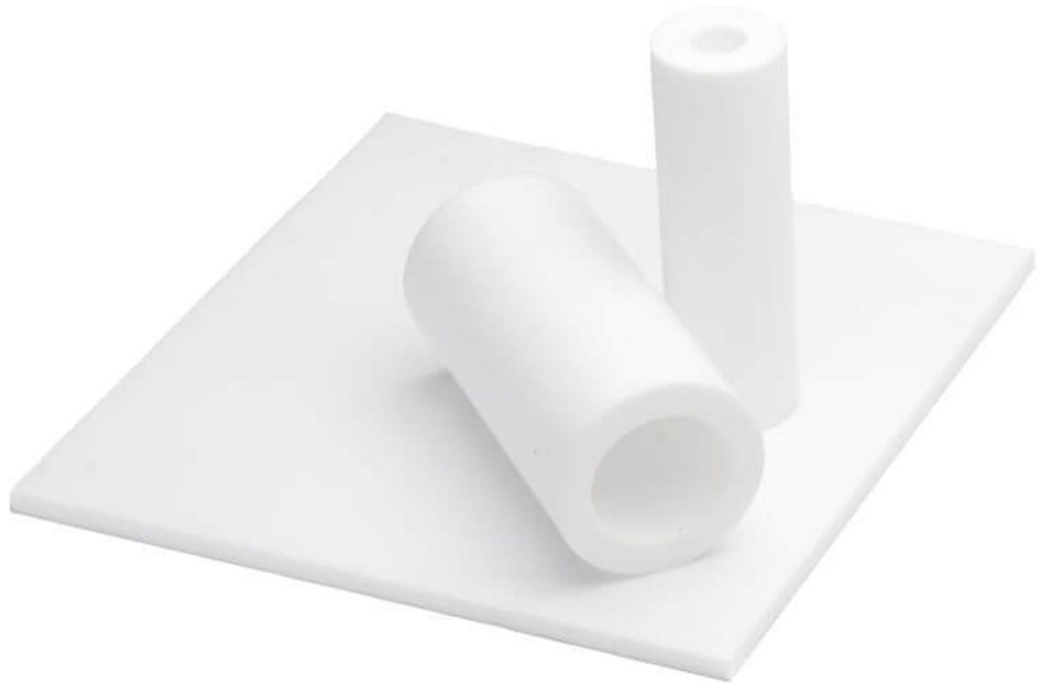


Virgin PTFE Teflon



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MS ISO/IEC 17021:2011
QS26122016 CB 16



Certificate Number : FM 646287
ISO 9001 : 2015

● Polytrafluoroethylene (PTFE) is a high performance polymer which is almost chemically inert, only being attacked under extreme conditions by molten alkali metals and certain fluorine compounds.

● PTFE materials are suitable for a wide range of temperatures from cryogenic to 260 °C and have excellent insulating capabilities and high dielectric properties. In this respect PTFE is a very successful gasket material.

● **General Properties**

- Outstanding chemical resistance
- Suitable for use with foodstuffs and pharmaceutical applications
- Insoluble in solvents, even at increased temperature
- Stable to light
- Does not absorb water
- Excellent electrical insulating capacity
- Low thermal conductivity

● **Typical Applications**

- Aggressive or toxic fluids
- Pharmaceutical industry
- Food industry
- Chemical industry

● **Typical Products**

- Gaskets & Seals
- O-Rings
- Valve seats
- Bearings Pads

● **Standard Thickness, Roll Size and Finish**

Standard Thickness	1.5mm, 2mm, 3mm, 4mm, 5mm, 6mm
Standard Roll Size	1200 x 1200mm
Standard Finish	Both Sides Smooth (SS)

* Note: Manufacturing tolerance of ± 10% on thickness, ± 5% on length & ± 2% on width shall be applicable

Cut lengths, strips, custom shapes, surface finish and colours are available upon request

● **Technical Data** - Typical values for a thickness of 2.0 mm

	Test Method	Unit	Specified Value
Specific gravity	ASTM D792	-	2,14 - 2,20
Tensile strength	ASTM D1457	MPa	20 - 35
Elongation at break	ASTM D1457	%	210 - 400
Working temperature range	-	°C	-200 - +260
Flexural strength 0,7 N/mm²	ASTM D790	MPa	no break
Hardness	ASTM D2240	(shoreD)	50 - 60
Compressive strength 1% deformation	ASTM D695	MPa	4,00 - 4,50
Friction coefficient - static	ASTM D3028 (2)	-	0,09
Friction coefficient - dynamic	ASTM D3028 (2)	-	0,05
PTFE - steel oil lubricated	-	-	0,02 - 0,06
Coefficient of thermal expansion from 25 to 100°C	ASTM E831	10 ⁻⁵ * C ⁻¹	16
Thermal conductivity	ASTM D2214	W/mK	0,20
Dielectric strength (short-time air thickness 0,5 mm)	ASTM D149	kV/mm	55
Dielectric constant	ASTM D150	-	2,10
Volume resistivity	ASTM D257	Ohm/cm	10 ⁻¹⁷
Surface resistivity	ASTM D257	Ohm	10 ⁻¹⁵
Arc-resistance	ASTM D495	sec	OK (4)
Water absorption	ASTM D570	%	<0,01

All information/applications contained in this publication are to the best of our product knowledge. Since condition of uses is beyond our control, users must satisfy themselves that products are suitable for the intended processes and uses. Failure of select the proper sealing products could result in property damage and/or serious personal injury. We reserve the right to change product information without notice.