

# DATA SHEET

## (ePTFE)

### DESCRIPTION

ePTFE sheet gasketing is made of 100% expanded PTFE. The special proprietary expansion process generates a highly fibrillated microstructure, making the sheet soft and pliable. The material is very tough and can withstand high compressive loads without affecting its sealing capability. ePTFE has excellent resistance to creep relaxation and cold flow and is exceptional in sealing damaged and uneven flanges.

ePTFE possesses universal resistance against common chemicals, meets FDA requirements, does not corrode, age or become brittle and has an unlimited shelf life. It is also unaffected by UV and ozone conditions.

### APPLICATIONS

ePTFE is so versatile because of its capabilities to handle nearly all liquid and gases. It is usually used throughout the Pharmaceutical, Chemical Manufacturing, Food & Beverage, Distilling, Marine, Pulp and Paper processing, Power Generation, Cryogenics and Petrochemical industries.

ePTFE is incomparable in sealing fragile flanges, FRP, Plastic, Porcelain and glass lined piping or vessels due to its low compressive load to seal.

### PHYSICAL PROPERTIES

Material	100% PTFE
Appearance	Very White, Deformable, Continuous & Strong
Composition	Microcellular PTFE
Temperature Range	-450°F to 600°F (-232°C to +260°C)
pH Value	0-14 (All fluids except elemental fluorine & molten alkali metals)
Pressure	From Vacuum to 3,000psi
Colour	White
Flammability	Will not burn
Bacteria	Will not Support
Compressibility	66 % (ASTM F-36)
Recovery	16% (ASTM F-36)
Creep Relaxation	38% (ASTM F-38)
Tolerance	1.5mm ± 0.5mm, 3.0mm ± 0.25mm
Specific Gravity	0.85 ± 0.04
Sealability	0.16 (millilitres/hr leakage 60 psig/4 bar-nitrogen gas (ASTM F-37-B))
Sheet Size	1500mm x 1500mm (2000mm x 2000mm available special manufacture)
Thickness	0.5mm, 1.5mm, 3mm, 6mm
FDA	Meets requirements (FDA 21 CFR177, 1550)
MSDS	Available upon request