

# 100% Expanded PTFE (ePTFE)

Non-ageing, easy installation and removal, fills irregularities due to its low density, unlimited shelf life, UV resistant, non-toxic & does not contaminate.

Compressibility @ 66% & Recovery @10-15%

It requires very minimal flange load and can withstand extremely high flange loads and high internal pressures.

Cold flow & creep is completely eliminated.

## ePTFE Joint Sealant Tape and Cord

- MOR Joint Sealant Tape and Cord can resist temperature from -240°C to 260°C (300°C for a very short period) and pressure from vacuum up to 200 bar and pH range 0-14.
- Tapes are supplied with self adhesive peel off backing.
- An additional layer can be applied at uneven or damaged surface specific areas to ensure seal ability.
- Quick and ease of installation, reduced inventory and downtime.
- m=2, γ=16

## Density :

- 0.7 g/mm<sup>3</sup>

## Tape Width :

- 3mm to 65mm

## Tape Thickness :

- 1.5mm to 9mm

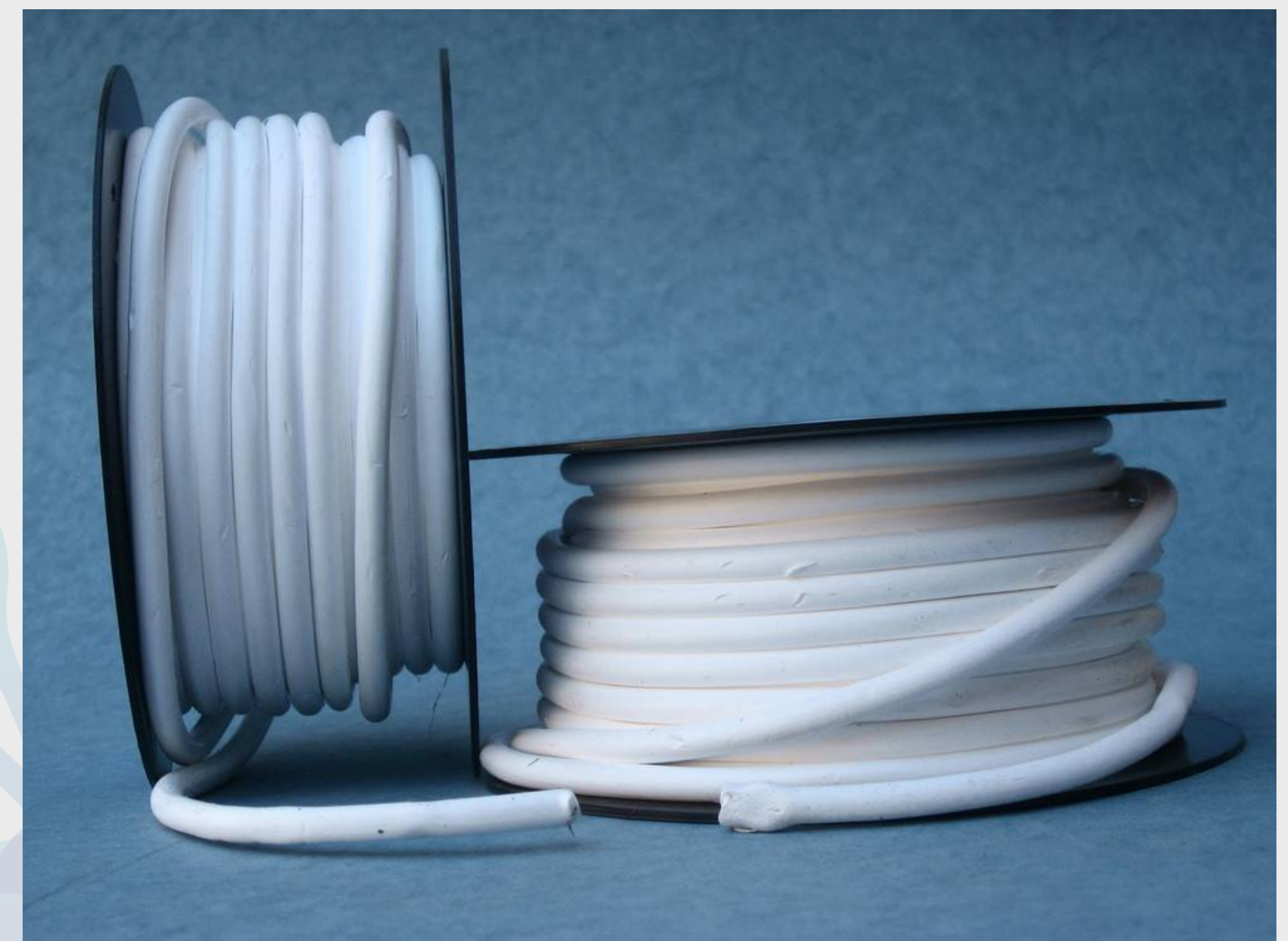
## Cord Diameter :

- 3mm to 15mm (Mono or multi-directional)

## Usage :

- Up to Nominal Flange Diameter

3mm x 1.5mm	NB 50
5mm x 2.0mm	NB 200
7mm x 2.5mm	NB 600
10mm x3.0mm	NB 1500
12mm x 4.0mm, 14mm x 5.0mm, 17mm x 6.0mm, 20mm x 7.0mm & 25mm x 10.0mm	> NB 1500



### ePTFE Sheet

- MOR Expanded PTFE Sheet can resist temperature from -240°C to 260°C and pressure from vacuum up to 200 bar and pH range 0-14.
- Meets high stress retention with minimum cold flow.
- High tightness class at relatively low gasket pressure.
- Ease of cutting and punching any size and shape, ease of installation and removal, no cleaning or repairing of pitted or irregular sealing areas, can accommodate any intricate shape and an additional layer to compensate for irregularities in sealing areas.
- $m=2, \gamma=30 \text{ N/mm}^2$

### Density :

- $0.9 \text{ g/mm}^3$

### Sheet Size :

- 1500mm x 1500mm

### Thickness :

- 1.5mm,
- 2.0mm,
- 3.0mm,
- 5.0mm
- 6.0mm
- Multi-directional ePTFE



### Expanded PTFE Technical Data Sheet

Property	Standard	Value
Density	ASTM D7 92	0.75 - 0.95 g/cm <sup>3</sup>
Water Absorption	ASTM D5 70	< _____ %
Safe Operating Temperatures	–	-240 -200 oC (biological, Pharma, food application) 200 -260 oC (Non-bio/ food Pharma application)
Compressibility	ASTM F 36	45+/-5%
Recovery	ASTM F 36	12-13%
Creep Relaxation	ASTM F 38	35-36%
Sealability/ Leakiness rate Nitrogen at 4Mpa, 20 °c	ASTM F 37B	0.15 ml/ hr
Sealability/ Leakiness Rate Furnace oil 4Mpa, 20 °c	ASTM F 37B	0.02 ml/ hr
Service Pressure	–	Full Vaccum to 19 Mpa
Tensile Strength Both Directions	ASTM D6 38	16-17 Mpa
Moisture / Solvent Absorption	–	Negligible
Combustibility	–	Non-combustible
Weather Resistance	–	Excellent
Chemical Resistance	–	Example: Excellent, except for highly fluorinating agents

#### Disclaimer:

- The values given in the data sheet are for refence only.
- Customers are advised to test the suitability of our materials for their application as these values may not directly are good under all complex / multiple application conditions.
- Our company does not undertake any liability, direct or indirect, linked with the usage and performance of our materials under application conditions.