

# Datasheet

*ePTFE forms a thin, but yet strong, reliable gasket under compression, that is highly resistant to aggressive media.*

*The sealing tape is soft and flexible. Due to the expanded fiber structure of the ePTFE, cold flow will reduce significantly. This results in an excellent sealing material*

*Because of the excellent thermal and chemical resistance of ePTFE, it can be used in a wide variety of static applications in virtually any industry where only a limited flange load may be available. The adhesive type offers easy mounting.*

*Typical applications are the sealing of flanges, pump housings, compressors, hand and manholes, air ducts, compensators, heat exchangers and many more.*

# Polyfluor



## Key properties of ePTFE

- Temperature range: -240°C to +260°C, short periods up to +310°C.
- resistant against all chemicals from pH 0-14 - except molten alkali metals and elemental fluorine at high temperature and pressure.
- Pressure resistance: vacuum up to 200 bar
- Density: 0,65 g/cm<sup>3</sup>, +/- 0,1g/cm<sup>3</sup> (for rectangular cross sections only)
- ePTFE itself does not age and is UV-resistant. However, the adhesive backing may lose its effectiveness if kept unused for too long.
- Colour: white (other pigments available on demand)
- ePTFE can be offered in virgin and carbon filled variants.
- ePTFE is physiologically harmless. It has no smell or taste. It is neither contaminating nor toxic. It is made using FDA approved raw materials.

## ePTFE Sealing tape

Available as adhesive and non-adhesive strips wound on spools. Thicknesses range from 2mm up to 8mm in widths of up to 40mm. Spools of 50 mtr available, depending on the thickness.

## ePTFE Gaskets

Cut gaskets can be offered custom made. Available in outer diameters up to 200 mm and thicknesses of 3 to 8 mm.

## ePTFE Membranes

Thin membranes of thickness 0,15-0,25 mm having pore sizes of 0,2 – 0,4 microns. Available in continuous rolls in customizable widths.

## ePTFE Sheet

Available in widths up to 200 mm and thicknesses ranging 3 to 5 mm.

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## Advantages

- The adhesive strip makes installation easier while the shape and versatility of the material means minimal cutting and sizing
- A few spools of different sizes cover most applications within a plant.
- The texture of ePTFE ensures the material accommodates the shape of the mating member, so there is no chance of the equipment getting damaged by the ePTFE.
- ePTFE is chemically inert and can therefore be used even in the harshest environments without risk of reacting with the surrounding substances.
- ePTFE will be delivered on spool, so no material gets wasted.
- ePTFE remains one of the few materials to be able to separate gas from liquids due to its micro pore size.

## ePTFE gasket

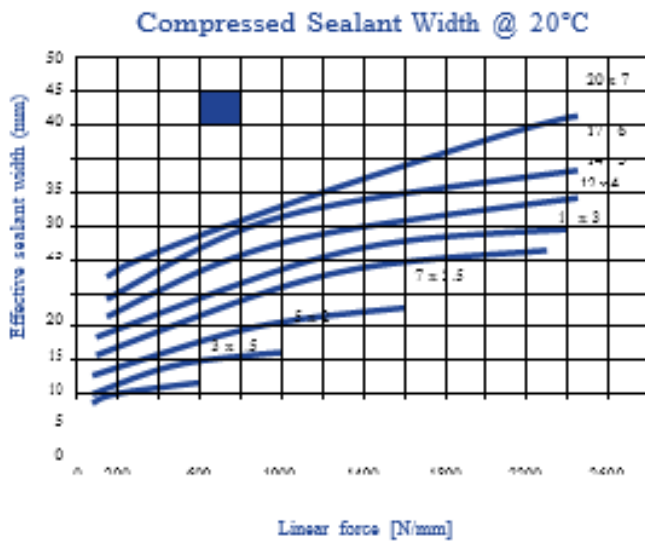
Will be delivered on rolls with width up to 200 mm. On request we can produce in smaller widths. Polyflour offers the opportunity to supply both the gaskets and sheets.

## ePTFE membranes

Are supplied in running lengths with maximum width of 500 mm. Membranes are used in filtration for the separation of gases from liquids and/or the separation of micro particles from batches of fine powders. Applications can be found in both automotive and medical industries and can be supplied either as pure ePTFE membranes or as ePTFE membranes with polymer backings – such as polypropylene or polyethylene.

Standard Spool Lengths (others on request)				
Size (mm)	5m	10m	25m	50m
1.5 x 3			✓	✓
2 x 5			✓	✓
2.5 x 7			✓	✓
3 x 10		✓	✓	✓
4 x 12		✓	✓	✓
5 x 14		✓	✓	
6 x 17	✓	✓	✓	
7 x 20	✓	✓	✓	
5 x 25	✓	✓	✓	
5 x 28	✓	✓		

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## ePTFE membranen Technical Parameters

Reference pore size:	0,2 – 0,45 µm
Water entry pressure:	>15 psi (> 1.0 bar), ASTM D751
Air permeability:	0,2-0,5 ft <sup>3</sup> /ft <sup>2</sup> /min @125 Pa (20-50 l/h/cm <sup>2</sup> @ 0,07 bar), ASTM D737
Thickness:	6 – 10 mil (0.15 – 0.25 mm), ASTM D1777
Oil repellence:	> 6 Membraan zijde, AATCC 118
Beschikbare afmetingen:	OEM membranen als aangepaste klantgesneden goederen. Membraan ventilatieopeningen in aangepaste vormen.