

Expanded PTFE

Material data sheet

Expanded PTFE is an engineered sealing material made from 100% polytetrafluoroethylene (PTFE). Thanks to its biaxial fibrous structure, it offers very good mechanical strength, high flexibility, and excellent conformability to sealing surfaces. The material provides outstanding sealing performance, a very low coefficient of friction, and high chemical resistance to a wide range of media such as oils, fuels, water, acids, alkalis, and gases.

Expanded PTFE also has minimal water absorption, is non-toxic, and is suitable for use in the food and pharmaceutical industries. Due to its softness and high compressibility, it adapts well even to uneven or damaged sealing surfaces and ensures long-term reliable sealing.



The temperature resistance is $-240\text{ }^{\circ}\text{C}$ to $+260\text{ }^{\circ}\text{C}$.

Examples of products and applications:

Flange gaskets, face gaskets, seals for chemical equipment, pipeline connections, equipment used in the chemical, petrochemical, food, and pharmaceutical industries, and applications requiring high chemical resistance and reliable sealing even on less-than-ideal sealing surfaces.

Certifications: VDI 2440, EN 13555, DIN 28090-1 (issued by the AMTEC testing institute).

Dimension (mm)	1000 x 1000 / 1500 x 1500							
Material thickness (mm)	0,5	1,0	1,5	2,0 (-10% + 15%)	3,0	4,0	5,0	9,0 (+/- 10%)
Colour	white							
	Norm	Unit	Value					
Max. service temperature - long-term		$^{\circ}\text{C}$	-240 / +260					
Max. servis pressure		bar	200					
Certification	VDI 2440, EN 13555, DIN 28090-1							
Compressibility	ASTM F 36J	%	58-66					
Recovery min.	ASTM F 36J	%	18-22					
Permeability class	TA Luft VDI2440	mbar.l/(s.m)	9.2×10^{-7}					



REONTECH CZ s.r.o.

IČ: 02560259

DIČ: CZ02560259

+420 773 161 969

info@reontech.cz

www.reontech.cz

Ujčov 97

592 62 Ujčov