

Plastic tubing PTFEN

FESTO



Characteristics

At a glance

Particularly resistant to chemicals, cleaning processes, extreme temperatures and pressure. Perfect for use in the food industry, e.g. in meat processing.

- Polytetrafluoroethylene
- For food-safe grade, see www.festo.com/certificates/PTFEN
- High resistance to chemicals
- High temperature resistance
- Operating medium: compressed air, vacuum

Additional documents

Link [ptfen](#)



The additional document TUBING-NPT-ADD contains further information on tubing/fitting combinations, assembly instructions and measuring procedures.

Engineering tools

Link [engineering tools](#)



Save time with engineering tools: Smart engineering for the optimal solution. Our goal is to increase your productivity. Our engineering tools play an integral part in achieving this goal. They help you size your system correctly, tap into unimagined productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools that will be of use to you.

- Flow calculation: Determine the nominal flow rate by entering parameters such as input pressure, output pressure, tube length and internal diameter (www.festo.com/x/flowrate-calculation).
- Media resistance: Evaluate the resistance of various types of materials and tubing from Festo to different chemicals and media (www.festo.com/x/media-resistance).

Diagrams

Link [ptfen](#)

The diagrams shown in this document are also available online. These can be used to display precise values.

Packaging unit [ft]

Standard: 150 ft

Type code

001	Series	
PTFEN	Plastic tubing, polytetrafluorethylene, standard O.D.	

002	Tubing outside diameter	
5/32	5/32"	
1/4	1/4"	
5/16	5/16"	
3/8	3/8"	
1/2	1/2"	

003	Colour	
NT	Natural	

004	Packaging unit [ft]	
150	150 ft	
300	300 ft	

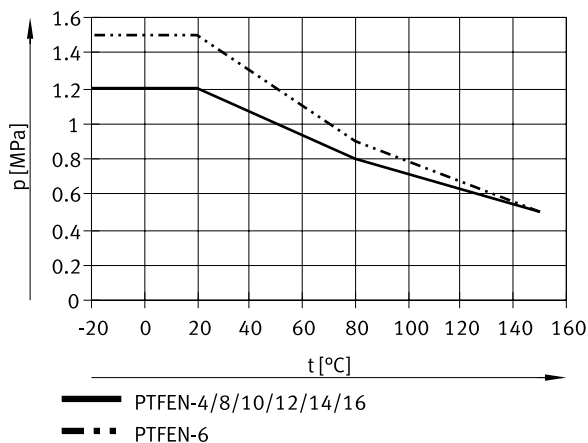
Datasheet

Operating and environmental conditions

Outside diameter inch	1/2	1/4	3/8	5/16	5/32
Inside diameter	8.5 mm	4.1 mm	6.5 mm	5.9 mm	2.9 mm
Pneumatic connection	For push-in connector O.D. 1/2"	For push-in connector O.D. 1/4"	For push-in connector O.D. 3/8"	For push-in connector outside diameter of 5/16"	For push-in connector outside diameter of 5/32"
Flow-relevant bending radius	120 mm	40 mm	100 mm	90 mm	32 mm
Min. bending radius	81 mm	37 mm	63 mm	64 mm	32 mm
Temperature-dependent operating pressure	-0.095 ... 1.2 MPa				
Temperature-dependent operating pressure	-0.95 ... 12 bar				
Temperature-dependent operating pressure	-13.775 ... 174 psi				
Operating pressure complete temperature range	-0.095 ... 0.5 MPa				
Operating pressure complete temperature range	-0.95 ... 5 bar				
Operating pressure complete temperature range	-13.775 ... 72.5 psi				
Operating medium	Compressed air to ISO 8573-1:2010 [7:::]				
Suitable for use with food ¹⁾	See supplementary material information				
Ambient temperature	-20 ... 150°C				
Fire test material	UL94 V-0				

1) More information www.festo.com/catalogue/ptfen → Support/Downloads.

Operating pressure p as a function of temperature t



Materials

Shore hardness	D 55 +/-5
Material tubing	PTFE
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom suitability, measured according to ISO 14644-14	Element installed statically, no meaningful evaluation possible according to ISO 14644-1
Instructions on use	Tubing without printing

Ordering data

Ordering data							
	Outside diameter inch	Packaging unit [ft]	Product weight according to length	Colour	Part no.	Type	
	1/2	150 ft	0.153 kg/m	Natural	8061183	PTFEN-1/2-NT-150	
	1/4	300 ft	0.04 kg/m		8061181	PTFEN-1/4-NT-300	
	3/8	150 ft	0.084 kg/m		8061182	PTFEN-3/8-NT-150	
	5/16		0.049 kg/m		8063351	PTFEN-5/16-NT-150	
	5/32	300 ft	0.013 kg/m		8063350	PTFEN-5/32-NT-300	