Overview plastic tubing, standard O.D. (inch) and additional information





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Product range overview

Version	Туре	O.D.	Colour									Operating medium		
		[inch]	Silver	Blue	Black	Yellow	Green	Red	Brown	White	Natural	Compressed air	Vacuum	Water
	PEN Polyethylene	(5/32) ¹⁾ , 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	(■)1)	•	•	(■)1)	(■)1)	(■)1)	(■)1)	(■)1)	(■)1)	•	•	•
	PLN Polyethylene	(5/32) ¹⁾ , 3/16, 1/4, 5/16, 3/8, (1/2) ¹⁾ , 5/8	(■)1)	•	•	(■)1)	(■)1)	(■)1)	(■)1)	(■)1)	•		•	-
	PUN-H Polyurethane	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	•		•	•	•	•	•	•	•			-

¹⁾ Please note the information below.



Product options in brackets can only be ordered using the modular product system.

Please note the minimum order quantity of 10000 ft.

There is a modular product system for plastic tubing:

- PEN
- PLN
- PUN

Product range overview

Туре	Food-safe	Halogen-free	Contact with elec- trical cables	PWIS-free to FN 942 010	Suitable for use with energy chains	Resistance		 	₈		
						Chemicals	Microbes	UV radiation	Hydrolysis	Flexible	Shore hardness ³⁾
PEN	_	•	•	•	+++	++	++	++2)	+++	++	D 52 ±3
PLN	•	•	•	•	-	++	++	++2)	+++	+	D 52 ±3
PUN-H	•	•	•	•	++	+	++	++2)	++	+++	D 52 ±3

⁺⁺⁺ Extremely suitable

⁺ Limited suitability (on request)

⁺⁺ Very suitable

⁻ Not suitable

²⁾ Applies to the colour black

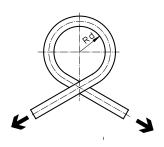
³⁾ Values are determined using test panels. Values determined using tubing may vary.

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Measurement method

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Flow-relevant bending radius Rd



The tube is bent in the direction of its own curve until the tubing outside diameter is flattened by 5%.
Rd is then calculated mathematically.
The flow rate is not reduced until Rd is reached.

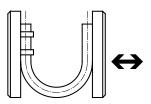


Cross-section flattened by bending the tube.

d = non-deformed tubing O.D.

d1 = deformed tubing O.D.

Minimum bending radius Rmin



The tube fixed to the base plate is bent until the deformation results in a kink. The measured value is the minimum bending radius Rmin. This Rmin results in significant reductions in the flow rate.