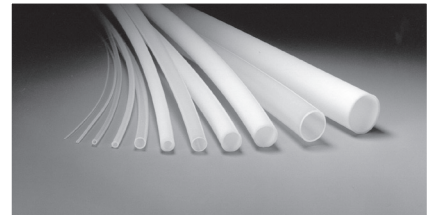


TECHNICAL PRODUCT INFORMATION: PTFE

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PTFE STANDARD DIMENSIONAL TUBING

ID mm	ID Tol. +/- mm	Wall mm	OD mm	OD Tol. +/- mm	Length	BR mm 20 °C	BP bar 20 °C	kg/ 100 m	Article No.
2.00	0.10	1.00	4.00	0.10	50 m coil	9	110	2.03	451PTFE/0201
2.00	0.10	1.00	4.00	0.10	100 m coil	9	110	2.03	451PTFE1/0201
4.00	0.10	1.00	6.00	0.10	50 m coil	25	55	3.38	451PTFE/0604
4.00	0.10	1.00	6.00	0.10	100 m coil	25	55	3.38	451PTFE1/0604
4.00	0.10	1.00	6.00	0.10	500 m wood spool	25	55	3.38	451PTFEH5/0604
4.00	0.10	1.00	6.00	0.10	500 m plastic spool	25	55	3.38	451PTFEK5/0604
6.00	0.10	1.00	8.00	0.10	50 m coil	49	35	4.73	451PTFE/0806
6.00	0.10	1.00	8.00	0.10	100 m coil	49	35	4.73	451PTFE1/0806
6.00	0.10	1.00	8.00	0.10	500 m wood spool	49	35	4.73	451PTFEH5/0806
6.00	0.10	1.00	8.00	0.10	500 m plastic spool	49	35	4.73	451PTFEK5/0806
8.00	0.10	1.00	10.00	0.10	50 m coil	81	28	6.08	451PTFE/1008
8.00	0.10	1.00	10.00	0.10	100 m coil	81	28	6.08	451PTFE1/1008
9.00	0.2	1.50	12.00	0.10	50 m coil	75	40	10,64	451PTFE/1209
10.00	0.20	1.00	12.00	0.20	50 m coil	121	20	7.43	451PTFE/1210
10.00	0.20	1.00	12.00	0.20	100 m coil	121	20	7.43	451PTFE1/1210



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CHEMICAL RESISTANCE OF PTFE

Chemical: Organic and halogenated solvents

Effect: Swell, reversible after short-term exposure, irreversible after long-term exposure

Chemical: Alkali metals, in solution or molten state

Effect: Elimination of fluorine, destruction of the polymer

Chemical: Halogens, gaseous fluorine, chlorine trifluoride, oxygen difluoride

Effect: Chemical reactions possible at elevated temperatures, destruction of the polymer, swelling, explosion possible

Chemical: Monomers: Such as styrene, butadiene and acrylonitrile

Effect: Penetration possible, spontaneous polymerization may destroy the polymer

Chemical: Concentrated sodium and potassium hydroxide

Effect: Temperature > 200° C, Chemical reaction possible

Chemical: Strong Lewis bases (boranes, aluminium chloride, ammonia, some amines and imines)

Effect: Temperature close to 260° C, Chemical reaction can occur at high temperature close or above maximal service temperature

Chemical: 70 % nitric acid

Effect: Temperature ≥ 250° C under pressure, Slow oxidative attack possible

Chemical: High energy radiation

Effect: Gamma radiation: 10 kGy dosage may already reduce physical properties by approximately 50%

Chemical: Nitrating acid: Mixture of conc. H_2SO_4 and HNO_3

Effect: Temperature >100° C, Decomposition of the fluoropolymer possible