

ASTM standard PEX Tubing
ASTM F-876/F-877/CTS-OD SDR9

Potable Water PEX

Pipe size	Dimension			Operating pressure(PN,MPa) and maximum working temprature(T_{max} ,°C)	Minimum Bend radius,,inches	Fluid capacity per 100Ft. Cubic inches
	Outside diameter	Wall thickness	Inside diameter			
3/8"	0.500 ±0.003 inches (12.70 ±0.08) mm	0.070 +0.010 inches (1.78 +0.25)mm	0.337---0.363 inches (8.56—9.22)mm	(1)PN=0.69Mpa(100psi), T_{max} =82°C(180°F) (2)PN=1.1Mpa(160psi), T_{max} =23°C(73°F) Note:Please see the TABLE X1.1	The minimum bending radius is six times the outside diameter of the pipe	122.083
1/2"	0.625 ±0.004 inches (15.88 ±0.10) mm	0.070 +0.010 inches (1.78 +0.25)mm	0.461---0.489 inches (11.72—12.42)mm			221.582
5/8"	0.750 ±0.004 inches (19.05 ±0.10) mm	0.083 +0.010 inches (2.12 +0.25)mm	0.560---0.588 inches (14.21—14.91)mm			321.275
3/4"	0.875 ±0.004 inches (22.22 ± 0.10) mm	0.097 +0.010 inches (2.47 +0.25)mm	0.657---0.685 inches (16.68—17.38)mm			436.863
1"	1.125±0.005 inches (28.58±0.12) mm	0.125 + 0.013 inches (3.18 +0.33)mm	0.844---0.880 inches (21.44—22.34)mm			721.219
1¼"	1.375±0.005 inches (34.92 ±0.12) mm	0.153 + 0.015 inches (3.88 +0.38)mm	1.034---1.074 inches (26.28—27.28)mm			1076.480

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TABLE X1.1 Hydrostatic Design Stresses and Pressure Ratings for PEX SDR 9 Hot Water Distribution Systems

Rated Temperature		Hydrostatic Design Stress		Pressure Rating for Water	
°F	°C	psi	(MPa)	psi	(MPa)
73.4	23	630	(4.34)	160	(1.10)
180	82.2	400	(2.76)	100	(0.69)