

Technical Specifications & Submittal Data Non-Barrier PEX Tubing

Sizes: 3/8"(NPx38xx), 1/2"(NPx12xx), 3/4"(NPx34xx) & 1"(NPx10xx)
where x is the color (R-red, B-blue), and xx is the first two numbers of the coil's length. Ex.:
500' coil of 3/4" Blue Non-Barrier PEX is NPB3450 (38 means 3/8", 12 - 1/2", etc.)

PRESSURE RATINGS

Operating pressure	Maximum working temp.
79psi	200°F
100psi	180°F
160psi	73°F

DIMENSIONAL DATA

Tubing size	OD	Wall thickness	ID	Volume gal/100'	Weight lbs/100'
3/8"	0.500±0.03	0.070±0.01	0.350	0.50	4.50
1/2"	0.625±0.04	0.070±0.01	0.475	0.92	5.80
3/4"	0.875±0.04	0.097±0.01	0.677	1.83	11.00
1"	1.125±0.05	0.125±0.01	0.863	3.03	16.94

All Everhot PEX tubing has CTS size dimensions and wall thickness per SDR 9.

MINIMUM BENDING RADIUS

Minimum bending radius R_{min} for Everhot PEX tubing is 8 times the outside diameter (OD): $R_{min} = 8 \times OD$
Example:
minimum bending radius for 1/2" PEX tubing with outside diameter of 5/8" is $8 \times 5/8" = 5"$

MARKINGS

All Everhot PEX tubing is marked with nominal and OD sizes, applicable ASTM standards, third-party certifications (NSF-pw), temperature & pressure ratings, material designation code, manufacturing date / time / codes and footage every 5ft of tubing.

APPLICATIONS

- Hot/Cold potable water distribution systems.
- Hot chlorinated water (for domestic use only per NSF P171).
- Radiant heating systems that do not contain ferrous parts.

SPECIFICATIONS

Non-barrier PEX is manufactured from HDPE using a silane method of cross-linking. Such tubing complies with ANSI/NSF 61 for drinking water system components (NSF-pw) and ANSI/NSF 14. UPC listed by IAPMO.

STANDARDS

Non-Barrier PEX tubing shall meet or exceed:
ASTM F876: Standard Specification for Crosslinked Polyethylene (PEX) Tubing.
ASTM F877: Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold- Water Distribution Systems.
ASTM F2023: Oxidative resistance of PEX to Hot Chlorinated Water (per NSF protocol P171).
CSA B137.5: Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications.

PRESSURE DROP TABLE (psi per 100ft)

Flow rate, GPM	3/8"	1/2"	3/4"	1"
0.5	2.50	0.51	0.05	0.02
1.0	7.50	1.70	0.34	0.10
2.0	26.1	5.30	1.02	0.35
3.0	54.1	11.0	2.10	0.63
4.0		18.4	3.53	1.06
5.0		27.4	5.26	1.58
6.0		38.1	7.30	2.19
7.0			9.63	2.89
8.0			12.3	3.68
9.0			15.1	4.55
10.0			18.3	5.50
11.0			21.7	6.52
12.0			25.4	7.63
13.0				8.81
14.0				10.1
15.0				11.4
16.0				12.8
17.0				14.3
18.0				15.8
19.0				17.5

DESCRIPTION

Everhot Inc. currently offers two types of PEX: Barrier and Non-barrier. Non-barrier tubing is most commonly used for hot and cold water residential plumbing applications. It can also be used for Radiant Heating applications in plumbing systems that do not contain ferrous parts such as cast iron.

STORAGE

PEX Tubing from Everhot Inc. shall not be exposed to direct sunlight for more than 60 days. Failure to comply with the above will void the warranty.

WARRANTY

25 year limited warranty. For details, see the complete document.