



TECHNICAL SPECIFICATIONS SHEET

Barrier PEX Tubing

Sizes: 3/8"(BPx38xx), 1/2"(BPx12xx), 5/8"(BPx58xx), 3/4"(BPx34xx) & 1"(BPx10xx)
 where x is the color (R-red), and xx is the first two numbers of the coil's length. Ex.:
 1000' coil of 1/2" Red Barrier PEX is BPR1210 (12 is 1/2", 58 is 5/8", 34 is 3/4", etc.)

PRESSURE RATINGS

Operating pressure	Maximum working temp.
79psi	200°F
100psi	180°F
145psi	73°F

Nominal size	OD	Wall thickness	ID	Volume gal/100'	Weight lbs/100'
3/8"	0.500	0.070	0.350	0.50	4.50
1/2"	0.625	0.070	0.475	0.92	5.80
5/8"	0.750	0.083	0.574	1.34	8.38
3/4"	0.875	0.097	0.677	1.83	11.00
1"	1.125	0.125	0.863	3.03	17.06

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 tubing with CTS size of 1/2" and outside diameter of 5/8" is:

$$R_{min} = 8 \times 5/8" = 5"$$

APPLICATIONS

- Radiant Heating Systems that do (Commercial, Industrial & Residential) - floors, wall, ceilings.
- Snow / Ice Melting Systems (in concrete & under asphalt).
- Non-potable water distribution
- Hydronic Recirculation Systems
- Geothermal applications

SPECIFICATIONS

PEX Tubing used for the above applications is the non-Barrier PEX, manufactured from HDPE, using a silane method of cross-linking. Such tubing has an EVOH oxygen diffusion barrier per DIN 4726, complies with ANSI/NSF 14 for plumbing system components and is certified for radiant floor heating applications (NSF-rfh).

STANDARDS

ASTM F876: Standard Specification for Crosslinked Polyethylene (PEX) Tubing
 ASTM F877: Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold- Water Distribution Systems
 CSA B137.5: Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications

PRESSURE DROP TABLE (psi per 100ft)

Flow rate, GPM	3/8"	1/2"	5/8"	3/4"	1"
0.5	2.50	0.51	0.21	0.05	0.02
1.0	7.50	1.70	0.71	0.34	0.10
2.0	26.1	5.30	2.12	1.02	0.35
3.0	54.1	11.0	4.36	2.10	0.63
4.0		18.4	7.36	3.53	1.06
5.0		27.4	11.0	5.26	1.58
6.0		38.1	15.3	7.30	2.19
7.0			20.1	9.63	2.89
8.0			25.6	12.3	3.68
9.0			31.7	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. The difference is the external coating of the barrier PEX, which allows it to be installed in plumbing systems that contain oxidative ferrous parts (such as cast iron). Barrier PEX cannot and shall not be used for drinking water applications.

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

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

Dimensional data is subject to manufacturing tolerances. To get the most recent updates, please visit the website.