

Technical Specifications & Submittal Data PEX Tubing with Oxygen Barrier

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
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
5/8"	0.750±0.04	0.083±0.01	0.574	1.34	8.38
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): $R_{min} = 8 \times OD$
 For example, minimum bending radius for 1/2" PEX tubing with 5/8" outside diameter 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-rfh), temperature & pressure ratings, material designation code, manufacturing date / time / codes and footage every 5ft of tubing.

APPLICATIONS

- Radiant heating systems
- Snow & ice melting systems.
- Baseboard & cast radiator heating.
- Other hydronic heating applications.

SPECIFICATIONS

Everhot PEX tubing with oxygen barrier is manufactured from HDPE using a silane method of cross-linking. Oxygen Diffusion Barrier (EVOH) is per DIN 4726 standard. Tubing complies with ANSI/NSF standard 14 for plumbing system components, NSF certified for radiant floor heating applications (NSF-rfh) and UPC listed by IAPMO.

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. Oxygen Barrier tubing is most commonly used in radiant heating or hydronic heating systems, which contain ferrous (cast iron) components, such as circulator pumps, cast radiators, boiler heating elements and others.

STORAGE

Everhot PEX Tubing 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.