



# TECHNICAL SPECIFICATIONS SHEET

## 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
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
3/4"	0.875	0.097	0.677	1.83	11.00
1"	1.125	0.125	0.863	3.03	16.94

### 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

- Hot and Cold water Distribution Systems (Commercial, Industrial & Residential)
- Potable water Distribution Systems
- Hot Chlorinated Water (for Domestic use only per NSF P171)
- Radiant Heating Systems that do not contain ferrous parts.
- 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 complies with ANSI/NSF 61 for drinking water system components and ANSI/NSF 14.

### 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: Oxydative 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 distribution as well as for potable water. It can also be used for Radiant Heating applications in plumbing systems that do not contain oxidative parts.

### 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.*