

Job or Customer :	
Location :	
Engineer :	
<input type="checkbox"/> Complies with Spec <input type="checkbox"/> Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

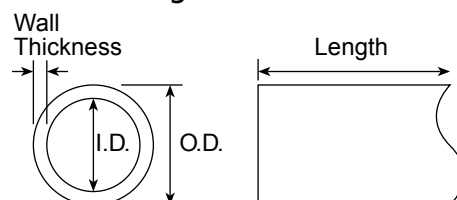
HeatLink[®] PEX-a tubing for hydronic heating systems comes with an oxygen diffusion barrier which prevents oxygen from entering the heating system through the tubing wall, and is chemically stabilized against extended UV exposure. This exceptional UV resistance offered by HeatLink[®] tubing allows the contractor some added protection if an installation is left exposed longer than expected. Covered by a twenty-five year manufacturers limited warranty.

Qty	Stk. #	Size	Length	Coil O.D. in (mm)	Coil Height in (mm)	Weight lb (kg)
	94205	½"	250' Coil	22.50 (570)	7.50 (190)	13.54 (6.14)
	94305	½"	300' Coil	22.50 (570)	7.50 (190)	16.25 (7.37)
	94505	½"	500' Coil	23.25 (585)	11.25 (285)	27.08 (12.28)
	94105	½"	1000' Coil	28.00 (715)	9.75 (245)	54.16 (24.57)
	94019400	⅝"	400' Coil	23.62 (600)	11.02 (280)	30.26 (13.73)
	94519	⅝"	500' Coil	28.00 (715)	9.75 (245)	37.83 (17.16)
	94119	⅝"	1000' Coil	30.50 (775)	11.25 (285)	75.66 (34.32)
	94322	¾"	300' Coil	28.00 (715)	9.75 (245)	30.66 (13.91)
	94522	¾"	500' Coil	30.50 (775)	11.25 (285)	51.10 (23.18)
	94122	¾"	1000' Coil	41.75 (1060)	13.00 (330)	102.21 (46.36)
	94128	1"	100' Coil	27.50 (695)	6.50 (160)	16.97 (7.70)
	94528	1"	500' Coil	42.91 (1090)	11.81 (300)	84.84 (38.48)
	94135	1¼"	100' Coil	30.50 (775)	11.25 (285)	25.15 (11.41)
	94335	1¼"	300' Coil	35.00 (890)	12.00 (305)	75.44 (34.22)
	94141	1½"	100' Coil	42.00 (1,070)	7.50 (190)	35.26 (16.00)
	94341	1½"	300' Coil	51.00 (1,300)	10.00 (255)	105.79 (47.99)
	94222	¾"	20' × 10 Straight Lengths	n/a	n/a	20.44 (9.27)
	94228	1"	20' × 5 Straight Lengths	n/a	n/a	16.97 (7.70)
	94235	1¼"	20' × 5 Straight Lengths	n/a	n/a	25.15 (11.41)
	94241	1½"	20' × 5 Straight Lengths	n/a	n/a	35.26 (16.00)

Technical Data

	Specifications
Material	PEX-a (Engel/peroxide method)
Minimum Bed Radius	6 × outside diameter @ 68°F (20°C)
Coefficient of Thermal Conductivity	2.635 BTU/h/ft ² /(°F/in) 0.38 W/(m °K)
Rate of Linear Expansion	1.1"/100'/10°F 1.4 × 10 ⁻⁴ m/(m °C) @ 20°C

Dimension Diagram

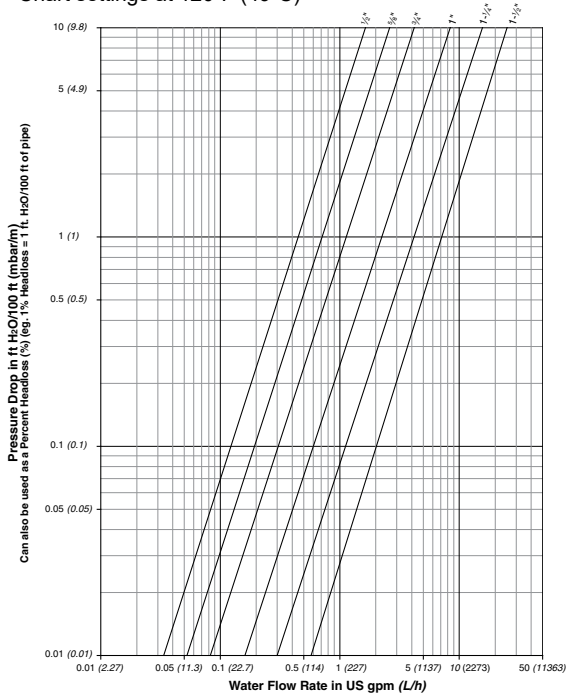


Size	Average O.D. in (mm)	Min. Wall Thickness in (mm)	Average I.D. in (mm)	Min. Bend Radius in (mm)	Min. Coil I.D. in (mm)	PEX Weight lb/ft (kg/m)	Fluid Volume USG/ft (L/m)	PEX + Water Weight lb/ft (kg/m)
1/2"	0.625 (15.88)	0.070 (1.78)	0.475 (12.07)	3.75 (95)	15.7 (400)	0.054 (0.081)	0.0092 (0.114)	0.13 (0.195)
5/8"	0.750 (19.05)	0.083 (2.12)	0.574 (14.56)	4.5 (114)	16.5 (420)	0.076 (0.113)	0.0134 (0.166)	0.19 (0.279)
3/4"	0.875 (22.22)	0.097 (2.47)	0.671 (17.03)	5.25 (133)	18.9 (480)	0.102 (0.152)	0.0184 (0.228)	0.26 (0.380)
1"	1.125 (28.58)	0.125 (3.18)	0.862 (21.89)	6.75 (171)	21.6 (550)	0.170 (0.252)	0.0303 (0.376)	0.42 (0.629)
1 1/4"	1.375 (34.92)	0.153 (3.88)	1.054 (26.78)	8.25 (210)	24.4 (620)	0.251 (0.374)	0.0453 (0.563)	0.63 (0.937)
1 1/2"	1.625 (41.28)	0.181 (4.59)	1.244 (31.62)	9.75 (248)	31.5 (800)	0.353 (0.525)	0.0631 (0.785)	0.88 (1.310)

PPI PEX Tubing Ratings

Temperature (°F / °C)	Plastics Pipe Institute - recommended HDB (psi)	Hydrostatic Design Stress (psi)	Resultant-pressure Rating (psi)
73.4°F / 23°C	1,250	630	160
180°F / 82.2°C	800	400	100
200°F / 93.3°C	630	315	80

Chart settings at 120°F (49°C)



Standards

- | | |
|-------------|------------------|
| ANSI/NSF-14 | ASTM F2657 |
| ANSI/UL 263 | ASTM E84 |
| ASTM F876 | CAN/ULC S101 |
| ASTM F877 | (all but 5/8") |
| ASTM F1807 | CAN/ULC S102.2- |
| ASTM F1960 | 2007/2010 |
| ASTM F2080 | CSA B137.5 |
| ASTM F2098 | DIN 4726/9 (EVOH |
| ASTM F2159 | oxygen barrier) |

Listings

- cNSF®us-rfh – PEX 0306
- cNSF®us-rfh – PEX 5106
- ICC-ES PMG 1087
- IAPMO UMC
- PPI TR-4
- CSA B137.5 RFH
- cQAlus P371
- UL/ULC

Plenum Rating

HeatLink PEX-a tubing has been tested in accordance with CAN/S102.2-2007/2010, Standard for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies and ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.

CAN/ULC S102.2-2007/2010 (Canada)

Product	Size	Limitations		Flame Spread Index (FSI)	Smoke Developed Index (SDI)
		Pipe Insulation Requirements*	Spacing Requirements		
HeatLink® O ₂ Barrier	½"	None	Minimum 8"	< 25	< 50
HeatLink® O ₂ Barrier	up to 1½"	rated ½" (13 mm)	None	≤ 25	≤ 50

ASTM E84 (United States)

Product	Size	Limitations		Flame Spread Index (FSI)	Smoke Developed Index (SDI)
		Pipe Insulation Requirements*	Spacing Requirements		
HeatLink® O ₂ Barrier	up to 1½"	rated ½" (13 mm)	None	≤ 25	≤ 50

Installation

Installation of HeatLink® PEX tubing must follow all of HeatLink’s instructions and guidelines, including those in the HeatLink Installation Guide, design information, and tubing layout drawings.

Related Documents

- INFO 5 - PEX Tubing Technical Information (L2305)
- HeatLink Installation Guide (L3390)
- HeatLink Limited Heating Warranty