

Job or Customer :	
Location :	
Engineer :	
☐ Complies with Spec ☐ 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.

Technical Data

Material:..... PEX-a (Engel/peroxide method)
 Minimum Bend Radius: 6× Size @ 68°F (20°C)
 Coefficient of Thermal Conductivity:..... 2.635 BTU/h/ft²/(°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

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)
	94319	⅝"	300' Coil	23.25 (585)	11.25 (285)	22.70 (10.30)
	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	35.00 (890)	12.00 (305)	102.21 (46.36)
	94128	1"	100' Coil	27.50 (695)	6.50 (160)	16.97 (7.70)
	94528	1"	500' Coil	35.00 (890)	12.00 (305)	84.84 (38.48)
	94135	1 ¼"	100' Coil	30.50 (775)	11.25 (285)	25.15 (11.41)
	94335	1 ¼"	300' Coil	35.00 (890)	12.00 (305)	75.44 (34.22)
	94141	1 ½"	100' Coil	42.00 (1,070)	7.50 (190)	35.26 (16.00)
	94341	1 ½"	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	1 ¼"	20'×5 Straight Lengths	n/a	n/a	25.15 (11.41)
	94241	1 ½"	20'×5 Straight Lengths	n/a	n/a	35.26 (16.00)

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)
½"	0.625 (15.88)	0.070 (1.78)	0.475 (12.07)	3.0 (77)	15.7 (400)	0.054 (0.081)	0.0092 (0.114)	0.13 (0.195)
⅝"	0.750 (19.05)	0.083 (2.12)	0.574 (14.56)	3.75 (95)	16.5 (420)	0.076 (0.113)	0.0134 (0.166)	0.19 (0.279)
¾"	0.875 (22.22)	0.097 (2.47)	0.671 (17.03)	4.5 (115)	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)	6.0 (153)	21.6 (550)	0.170 (0.252)	0.0303 (0.376)	0.42 (0.629)
1 ¼"	1.375 (34.92)	0.153 (3.88)	1.054 (26.78)	7.5 (191)	24.4 (620)	0.251 (0.374)	0.0453 (0.563)	0.63 (0.937)
1 ½"	1.625 (41.28)	0.181 (4.59)	1.244 (31.62)	9.0 (229)	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

* HeatLink® PEX tubing is listed in PPI TR-4 for these pressure/temperature ratings.

Standards

- ANSI/NSF-14
- ANSI/UL 263
- ASTM F876
- ASTM F877
- ASTM F1807
- ASTM F1960
- ASTM F2080
- ASTM F2098
- ASTM F2159
- ASTM F2657
- ASTM E84
- CAN/ULC S101 (all but ⅝")
- CAN/ULC S102.2-2007/2010
- CSA B137.5
- DIN 4726/9 (EVOH oxygen barrier)

Listings

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

Dimension Diagram

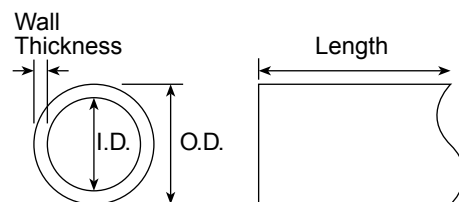
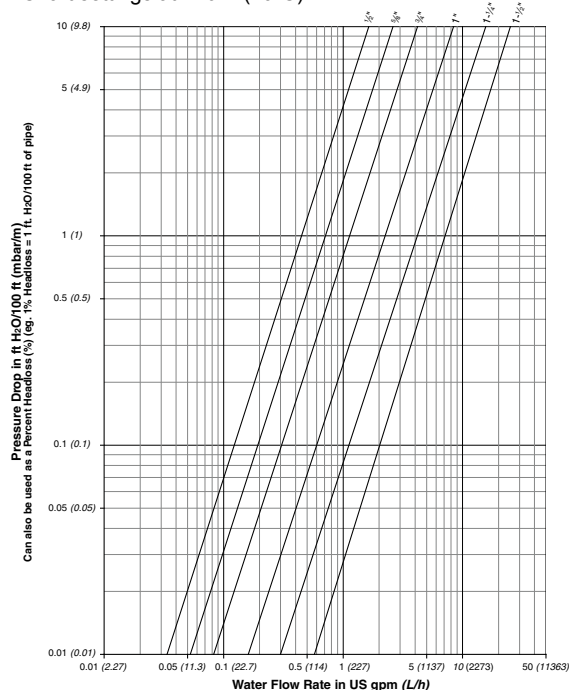


Chart settings at 120°F (49°C)



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 102.2-2007/2010 (Canada)

Product	Size	Flame Spread (FS)	Smoke Development (SD)	Insulation Required	Spacing Requirements
HeatLink	½"	<25	<50	No	Min. 8" (20 cm)
HeatLink	½" - 1 ½"	<25	<50	Yes**	None

** Requires ½" thick fiberglass insulation

ASTM E84 (United States)

Product	Size	Flame Spread (FS)	Smoke Development (SD)	Insulation Required	Spacing Requirements
HeatLink	½" - 1 ½"	<25	<50	Yes**	None

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