

|   |         |
|---|---------|
| Job or Customer :   |         |
| Location :  |         |
| Engineer :  |         |
| <input type="checkbox"/> Complies with Spec<br><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.

**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<sup>-4</sup> m/(m °C) @ 20°C

| Qty | Stk. # | Size | Length                  | Coil O.D.<br>in (mm) | Coil Height<br>in (mm) | Weight<br>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)     |
|     | 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.<br>in (mm) | Min. Wall<br>Thickness<br>in (mm) | Average I.D.<br>in (mm) | Min. Bend<br>Radius<br>in (mm) | Min. Coil I.D.<br>in (mm) | PEX Weight lb/ft<br>(kg/m) | Fluid Volume<br>USG/ft (L/m) | PEX + Water Weight<br>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<br>(°F / °C) | Plastics Pipe Institute -<br>recommended HDB<br>(psi) | Hydrostatic<br>Design<br>Stress<br>(psi) | Resultant-<br>pressure<br>Rating<br>(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-61
- 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
- NSF U.M.Code
- CSA B137.5 RFH
- ICC-ES
- ICC-PMG
- IAPMO UMC
- PPI TR-4
- Warnock Hersey

### 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 ¼" | <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 ¼" | <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.

### Dimension Diagram

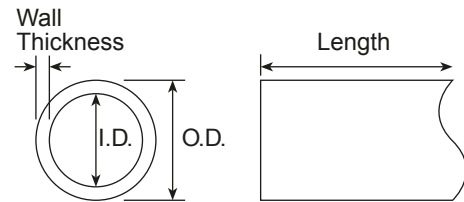
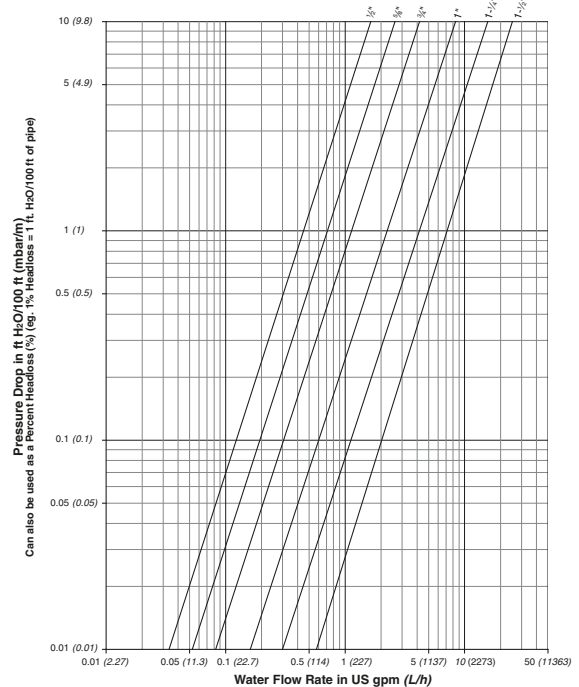


Chart settings at 120°F (49°C)



### Related Documents

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