PureLink® Plus Potable Water PEX-a Tubing (Red Wall)

Job or Customer :	
Location :	
Engineer :	
☐ Complies with Spec ☐ Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

PureLink® Plus PEX-a tubing for hot/cold potable water systems or hydronic heating systems is chlorine resistant and 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. The tubing is natural in color with outer red wall to indicate "hot" water line. Covered by a twenty-five year limited manufacturers warranty. PureLink® PEX-a tubing is approved for use with fittings that are compliant with ASTM F1807/F1960/F2080/F2098/F2159 standards.

The use of PEX tubing in a potable hot-water plumbing system with an operating temperature above 140°F (60°C) or system pressure above 80 psig (550 kPaG) or highly aggressive water quality or any combination thereof can significantly reduce the service life of the tubing.

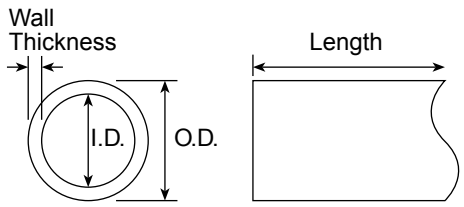
HeatLink requires following the guidelines described in Plastics Pipe Institute TN-53, Guide to Chlorine Resistance Ratings of PEX Pipes and Tubing for Potable Water Applications and HeatLink INFO 37, Domestic Hot Water Recirculation Systems.

Qty	Stk. #	Size	Length	Coil O.D. in (mm)	Coil Height in (mm)	Weight lb (kg)
	21105RW	½"	100' Coil	21.25 (540)	3.75 (95)	5.42 (2.46)
	21305RW	½"	300' Coil	22.50 (570)	7.50 (190)	16.25 (7.37)
	21122RW	¾"	100' Coil	23.50 (600)	6.25 (155)	10.22 (4.64)
	21322RW	¾"	300' Coil	22.50 (570)	7.50 (190)	30.66 (13.91)
	21128RW	1"	100' Coil	27.50 (695)	6.50 (160)	16.97 (7.70)
	21328RW	1"	300' Coil	30.50 (775)	11.25 (285)	50.90 (23.09)
	21205RW	½"	20' × 20 Straight Lengths	n/a	n/a	21.66 (9.83)
	21222RW	¾"	20' × 10 Straight Lengths	n/a	n/a	20.44 (9.27)
	21228RW	1"	20' × 5 Straight Lengths	n/a	n/a	16.97 (7.70)

Technical Data

	Specifications
Material	PEX-a (Engel/peroxide method)
Minimum Bed Radius	6× outside diameter
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
Max. Flow Velocity	13 ft/s (3.96 m/s)

Dimension Diagram



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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)	3.75 (95)	15.7 (400)	0.054 (0.081)	0.0092 (0.114)	0.13 (0.195)
¾"	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)

PPI PEX Tubing Ratings

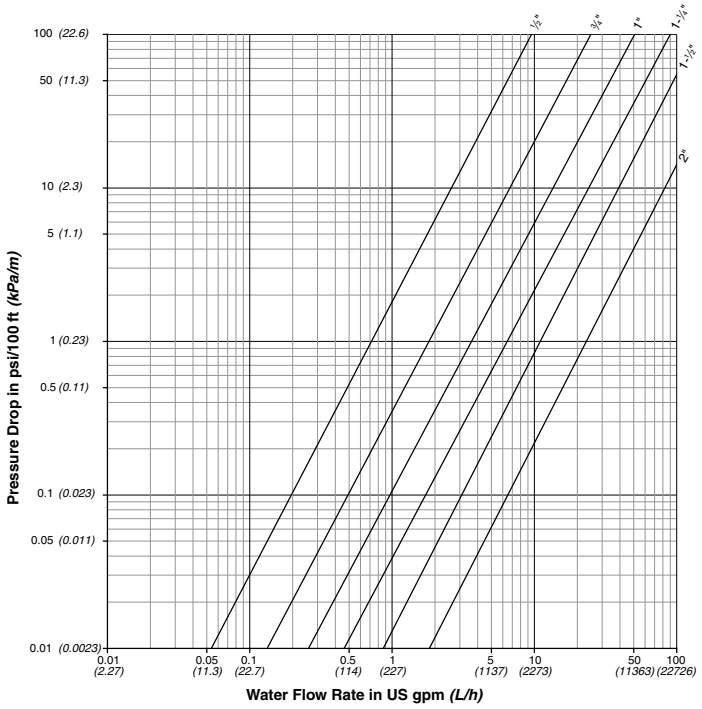
Temperature (°F / °C)	Plastics Pipe Institute - recommended HDB (psi)	Hydrostatic Design Stress (psi)	Resultant-pressure Rating (psi)
73.4°F / 23°C*	1,250	630	160
180°F / 82.2°C*	800	400	100
200°F / 93.3°C*	630	315	80

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

Standards
ANSI/NSF-61
ANSI/NSF-14
ANSI/NSF-372
ANSI/UL 263
ASTM F876
ASTM F877
ASTM F1807
ASTM F1960
ASTM F2023
ASTM F2080
ASTM F2098
ASTM F2159
ASTM F2657
ASTM E84
CAN/ULC S101
CAN/ULC S102.2
CSA B137.5
ANSI/CAN/UL 1821 (excl. ½")
AWWA C904

Listings
cNSF®us-pw-G – PEX 5106
cNSF®us-pw-G – PEX 5306
ICC-ES PMG 1087
IAPMO UPC
PPI TR-4
CSA B137.5 Potable
NSF-fs (½" & ¾")
cQAIus P371
UL/ULC

Chart settings at 120˚F (49˚C)



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Plenum Rating

PureLink Plus PEX-a tubing has been tested in accordance with CAN/ULC S102.2, *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 (Canada)

Product	Limitations			Flame Spread Index (FSI)	Smoke Developed Index (SDI)
	Size	Pipe Insulation Requirements**	Spacing Requirements		
PureLink® Plus	½"	None	Minimum 8"	< 25	< 50
PureLink® Plus	up to 2"	rated ½" (13 mm)	None	≤ 25	≤ 50
PureLink® Plus	up to 2" water filled pipe	optional	None	≤ 25	≤ 50

ASTM E84 (United States)

Product	Limitations			Flame Spread Index (FSI)	Smoke Developed Index (SDI)
	Size	Pipe Insulation Requirements**	Spacing Requirements		
PureLink® Plus	up to 2"	rated ½" (13 mm)	None	≤ 25	≤ 50
PureLink® Plus	up to 2" supported continuously with 23-gauge pipe supports covering minimum half exposed pipe area	rated ½" (13 mm) between pipe supports	None	≤ 25	≤ 50

**Insulation must be listed to ASTM C547 by an approved agency.
Insulation manufacturers include, but are not limited to:

Insulation	Flame Spread Index (FSI)	Smoke Developed Index (SDI)
Mason Alley-K Johns Manville Micro-Lok HP Johns Manville Micro-Lok Owens Corning Vapor Wick Owens Corning Fiberglass GLT Pipe and Tank Knauf Earthwool Redi-Klad	≤ 25	≤ 50

Installation

Installation of PureLink® and HeatLink® PEX tubing must follow all of HeatLink's instructions and guidelines.

Related Documents

- INFO 5 - PEX Tubing Technical Information (L2305)
- PEX-a Potable Water Press System Installation Guide (L3235)
- F1960 PEX-a Potable Water Expansion System Installation Guide (L3240)
- SureLink Fire Safety Installation Guide (L3245)
- HeatLink Limited Plumbing Warranty

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