

SUBMITTAL SHEET

JOB NAME	ITEM TAG
JOB LOCATION	PART NUMBER
CONTRACTOR	DATE
ENGINEER APPROVAL	DATE

LEGENDFLEX™ OXYGEN BARRIER PEX TUBING

Manufactured from Legend's proprietary formulation, which dramatically increases flexibility, while maintaining high strength and durability

Backed by our 30-year warranty

The externally-extruded EVOH oxygen barrier reduces oxygen molecule permeation into the water, virtually eliminating corrosion within the system

Packaged in sunlight-blocking containers or wrap, to protect the tubing from UV-light oxidation

Numerical foot markings permit circuit loop calculations, preventing excess circuit loop lengths

Ideal for radiant heating and cooling, geothermal, and snow and ice melt systems

Available in nominal tubing sizes 3/8", 1/2", 5/8", 3/4" and 1"

- Certified to NSF/ANSI Standard 14
- Listed to ASTM F876/877 and CSA B137.5
- Compliant with standards ASTM F2080 and F1960
- External EVOH oxygen barrier meets the requirements of DIN 4726 and EN ISO 15875
- Manufactured in compliance with EN ISO 15875 and DIN 16892
- Manufactured in an ISO accredited facility



**Pictured:
LegendFlex™**

Specifications:

Rated Pressure	at	Rated Temperature
160 psi		73 degrees F
100 psi		180 degrees F
80 psi		200 degrees F



PROPERTIES

PROPERTY:	VALUE:
Density	58.6 lb/ft ³
Degree of crosslinking	> 70%
Thermal conductivity	0.22 Btu ft/h ft ² °F
Coefficient of linear expansion	1.27 in. per 100 ft. per 10 °F
Modulus of elasticity at 73.4 degrees F	78,300 psi
Oxygen permeation	< 0.1 grams/m ³ /day
Bend radius	< 5x tubing outside diameter

MATERIAL SPECIFICATION

PART	MATERIAL	SPECIFICATION
PEX tubing	Extruded cross-linked Polyethylene resin with ethylene vinyl alcohol (EVOH) external layer	ASTM F876 and F877

DIMENSIONS

Nominal Tubing Size	OD*	Average wall thickness*	Available coil lengths	Bend diameter	Weight (lb. per ft.)	Capacity (gal. per ft.)
3/8"	0.500	0.070	500' and 1000'	5.00"	0.04	0.0051
1/2"	0.625	0.070	300', 500' and 1000'	6.25"	0.05	0.0096
5/8"	0.750	0.083	400' and 1000'	7.50"	0.07	0.0138
3/4"	0.875	0.097	100', 500' and 1000'	8.75"	0.10	0.0189
1"	1.125	0.125	500' and 1000'	11.25"	0.16	0.0312

* In accordance with ASTM F876 and F877 for SDR 9 tubing.
Tolerances apply; Consult both specifications for complete details