

# SUBMITTAL SHEET



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

## LYNX-PEX™ Reclaim Tubing

- Manufactured from cross-linkable high density polyethylene produced by grafting organo-salines onto a polyethylene base (PEXb)
  - 25 Year limited warranty
  - Advanced Polyethylene formulation contains UV inhibitor to protect the tubing from UV-light oxidation during storage, shipping and installation\*
  - Shipped in opaque packaging for additional protection from UV-light oxidation\*
  - Colored Purple and available in nominal tubing sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" (CTS-OD) with wall thicknesses corresponding to Standard Dimension Ratio (SDR) 9
  - Pressure Rated 200 psi (1.38 MPa) @ 73° F (23° C) per CSA B137.0 section 6.6.3.2.2
  - Pressure Rated 100 psi (0.69 MPa) @ 180° F (82° C) and 160 psi (1.10 MPa) @ 73° F (23° C) per CSA B137.0 section 6.6.3.1
  - Chlorine Classification Code 5 (100% resistance at 140° F)
  - Linear Expansion Rate: 1.1"/10° F/100 ft. (2.79 cm / 5.56° C / 30.48 m)
- \* Do not store LYNX-PEX™ Reclaim Tubing unprotected outdoors. Keep PEX tubing in the original packaging or under protective cover until time of installation per CSA B137.5**

### MARKINGS, SPECIFICATONS & CERTIFICATION:

LYNX-PEX™ Reclaim tubing is marked with the name CB Supplies as the manufacturer, nominal size, material designation code PEX 5306, manufacturing date and production code, footage markers in increments of 5 ft., and the listing marks as identified in the table below.

<b>NSF-rw</b>	Reclaimed Water Piping
<b>U.P. Code</b>	Uniform Plumbing Code
<b>ASTM F876</b>	Standard Specification for Crosslinked Polyethylene (PEX) Tubing
<b>ASTM F877</b>	Standard Specification for Crosslinked Polyethylene (PEX) Hot- and Cold Water Distribution Systems
<b>ASSE 1061</b>	Performance Requirements for Push-Fit Fittings
<b>ASTM F1807</b>	Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps, for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
<b>ASTM F2023</b>	Standard Test Method for Evaluating the Oxidative Resistance of Crosslinked Polyethylene (PEX) Pipe, Tubing and Systems to Hot Chlorinated Water
<b>ASTM F2159</b>	Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps for SDR9 Crosslinked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
<b>cNSFus</b>	NSF certified for compliance with Canadian and US Standards
<b>CSA B137.5</b>	Crosslinked polyethylene (PEX) tubing systems for pressure applications
<b>ICC-ES PMG</b>	ICC-ES evaluated for compliance with International, Uniform and Canadian Codes and Standards
<b>AWWA C904</b>	Crosslinked Polyethylene (PEX) Pressure Tubing, 1/2 In. (13 mm) Through 3 In. (76 mm), for Water Service

### TUBING DIMENSIONS

ASTM F876/F877 (CTS-OD) SDR-9

Nom. Size	O. D.	Wall Thickness	I.D.	Weight (lbs/ft.)	Volume (Gal/100 ft.)
1/2"	0.625" ± .004"	0.070" + .010"	0.485"	0.0535	0.97
3/4"	0.875" ± .004"	0.097" + .010"	0.681"	0.102	1.90
1"	1.125" ± .005"	0.125" + .013"	0.875"	0.169	3.13
1-1/4"	1.375" ± .005"	0.153" + .015"	1.069"	0.251	4.52
1-1/2"	1.625" ± .006"	0.181" + .019"	1.263"	0.352	6.30
2"	2.125" ± .006"	0.236" + .024"	1.653"	0.599	10.80

NOTE: Dimensions are in English units. Tolerances shown are ASTM requirements. LYNX-PEX™ Reclaim Tubing is manufactured to within these specifications.

**MATERIAL PROPERTIES:**

Property	Test Method	English Units	SI Units
Density	ASTM D1505	–	0.944 g/cc
Melt Index <sup>1</sup> (190°C/2.16 kg)	ASTM D1238	–	0.1g/10 min
Flexural Modulus <sup>2</sup>	ASTM D790	152,000 psi	1050 MPa
Tensile Strength @ Yield (2 in/min)	ASTM D638	>3,500 psi	>24.1 MPa
Coefficient of Linear Thermal Expansion (20 - 70° C)	DIN 53752A	8x10 <sup>-5</sup> /°F	1.5 x10 <sup>-4</sup> /°C
Hydrostatic Design Basis @ 73° F (23° C)	ASTM D2837	1250 psi	8.6 MPa
Hydrostatic Design Basis @ 180° F (82° C)	ASTM D2837	800 psi	5.5 MPa
Vicat Softening Point	ASTM D696	255° F	124° C
Thermal Conductivity	ASTM D177	2.4 Btu-in/(hr)(ft. <sup>2</sup> )(°F)	3.5x10 <sup>-3</sup> Watts/(cm <sup>2</sup> )(°C/cm)

- 1. Before cross-linking
- 2. 73°F

**MAXIMUM RESISTANCE**

LYNX-PEX™ Reclaim Tubing is made from PEX 5306 material, meeting ASTM F876 and CSA B137.5 requirements for the industry’s highest chlorine and UV resistance ratings. LYNX-PEX™ Reclaim Tubing is tested by accredited third-party laboratories according to ASTM Standard F2023.

**MINIMUM BURST PRESSURE (PSI)**

ASTM F876/F877 (CTS-OD) SDR-9

Nominal Size	73.4° (23°C)	180° (82.2°C)
1/2"	480	215
3/4"	475	210
1"	475	210
1-1/4"	475	210
1-1/2"	475	210
2"	475	210

**Notes:**

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**PRESSURE DROP TABLE**

Expressed as PSI/FT. Pressure Drop (US Gallons / Minute and I.D. used for calculation)

		Nominal Size				
GPM		3/4"	1"	1-1/4"	1-1/2"	2"
1	.019					
1.5	.038					
2.2	.075					
2.5	.093					
3	.128	.025				
3.5	.169	.033				
4	.213	.041				
5	.317*	.061				
6	.439	.084	.026			
7	.579	.111	.034			
8		.141	.042			
9		.173*	.052			
10		.209	.063	.024		
11		.248	.075	.029		
12		.290	.087	.033		
13		.336	.101	.039		
14			.115	.044		
16			.147*	.056	.025	
18			.181	.069	.031	
20			.219	.083	.038	
22			.261	.099*	.045	
24				.116	.052	
26				.134	.060	
28				.153	.069	
30				.174	.078*	
32					.088	.024
34					.098	.027
36					.109	.030
38					.120	.033
40					.132	.036
46					.171	.046
52						.058*
80						.128

EXAMPLE: To calculate the pressure drop of a 1/2" line, 40 ft. long, with a 3 gpm flowrate, calculate .128 psi x 40ft. = 5.12 psi pressure drop. Most plumbing codes require 8 psi residual pressure at the fixture. Refer to your local code requirements.

\*Indicates 8 fps maximum velocity allowed by some plumbing codes.

NOTE: Maximum flow for each size based on 12 fps velocity. PSI x 2.307 = headloss.



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