

COIL TUBING

Model	ID No.	Size	Color
S3312100W-PEXB	.3510041	1/2" x 100'	White
S3312100R-PEXB	.3510039	1/2" x 100'	Red
S3312100B-PEXB	.3510042	1/2" x 100'	Blue
S3334100W-PEXB	.3510044	3/4" x 100'	White
S3334100R-PEXB	.3510043	3/4" x 100'	Red
S3334100B-PEXB	.3510045	3/4" x 100'	Blue
S331100R-PEXB	.3510046	1" x 100'	Red
S331100B-PEXB	.3510048	1" x 100'	Blue
S3312300W-PEXB	.3510053	1/2" x 300'	White
S3312300R-PEXB	.3510052	1/2" x 300'	Red
S3312300B-PEXB	.3510054	1/2" x 300'	Blue
S3334300R-PEXB	.3510055	3/4" x 300'	Red
S3334300B-PEXB	.3510057	3/4" x 300'	Blue
S331300R-PEXB	.3510058	1" x 300'	Red
S331300B-PEXB	.3510060	1" x 300'	Blue
S3312500W-PEXB	.3510063	1/2" x 500'	White
S3312500R-PEXB	.3510064	1/2" x 500'	Red
S3312500B-PEXB	.3510065	1/2" x 500'	Blue
S3334500R-PEXB	.3510067	3/4" x 500'	Red
S3334500B-PEXB	.3510068	3/4" x 500'	Blue

STRAIGHT LENGTH TUBING

Model	ID No.	Size	Color
S331220W-PEXB	.3510028	1/2" x 20'	White
S331220R-PEXB	.3510024	1/2" x 20'	Red
S331220B-PEXB	.3510029	1/2" x 20'	Blue
S333420W-PEXB	.3510031	3/4" x 20'	White
S333420R-PEXB	.3510030	3/4" x 20'	Red
S333420B-PEXB	.3510032	3/4" x 20'	Blue
S33120W-PEXB	.3510034	1" x 20'	White
S33120R-PEXB	.3510033	1" x 20'	Red
S33120B-PEXB	.3510035	1" x 20'	Blue
S3311420W-PEXB	.3510036	1-1/4" x 20'	White
S3311220W-PEXB	.3510037	1-1/2" x 20'	White
S33220W-PEXB	.3510038	2" x 20'	White

SUBMITTAL SHEET

PROJECT INFORMATION

Job Name:

Location:

Engineer:

Contractor:

P.O. Number:

Representative:

FEATURES

- Best-in-class UV resistance for prolonged installations
- Durable pipe to withstand jobsite conditions
- Efficient to install; long coils reduce waste
- No flame, glues or fumes required to install
- Lightweight and compact for shipping, hauling and hanging
- Resists kinking, even below freezing temperatures
- Made in America

OPERATING SPECIFICATIONS

- 160 PSI AT 73.4°F
- 100 PSI AT 180°F
- ASTM F876 Tubing Designation Code: PEX 5306

APPROVALS

- ASTM F876/F877/F2023
- ASTM F1807/F2159/F1960/ ASSE 1061
- CSA B137.5
- PPI TR-3
- NSF 14/61
- ASTM E-84 | CAN/ULC S102.2¹
- ASTM E-119 | CAN/ULC S101²

NOTES

1. Flame Spread Index: <25/<50 - rating applies when tubing is field insulated with fiberglass insulation conforming to the following: ASTM E84 Listed, Flame Spread Index of <25, Smoke Developed Index of <50, Wall thickness min 1/2"
2. Fire Resistance Rating:
2hrs Design No: SCMC/DWP 120-01*
1hr Design No: SCMC/DWP 60-01*
1hr Design No: SCMC/DWP 60-02*

*Design listing details can be found at Intertek Online Directory of Building Products Ref spec ID 36150



Nominal Pipe Size in	Average OD "A" in (mm)	Minimum Wall Thickness "B" in (mm)	Weight lb/ft (kg/m)	Capacity Gal/ft (l/m)
1/2	0.625 (15.88)	0.070 (1.78)	0.06 (0.08)	0.0098 (0.1222)
3/4	0.875 (22.22)	0.097 (2.47)	0.10 (0.15)	0.0189 (0.2356)
1	1.125 (28.58)	0.125 (3.18)	0.17 (0.26)	0.0316 (0.3939)
1 1/4	1.375 (34.92)	0.153 (3.88)	0.25 (0.37)	0.0467 (0.5827)
1 1/2	1.625 (41.28)	0.181 (4.59)	0.35 (0.52)	0.0650 (0.8118)
2	2.125 (53.98)	0.236 (6.00)	0.60 (0.90)	0.1114 (1.3906)

Specification	English	SI	Standard
Minimum Density	58 lb/ft ³	926 kg/m ³	ASTM F876
Min. Degree of Crosslinking	65%	65%	ASTM F876
Thermal Conductivity	2.84 Btu in/(ft ² °F hr)	0.41 W/(m°K)	PPI TR-48
Coefficient of Linear Expansion	1.10" per 10°F dT per 100 ft.	28mm per 5.6°C dT per 30m	ASTM F876
Modulus of Elasticity	62,000psi @73° F 11,000psi @180° F	465Mpa @ 20° C 80Mpa @ 80° C	-

Specification	English	SI	Standard
IZOD Impact Resistance	No Break	No Break	-
Temperature Working Range	40° F - 200° F	4° C - 93° C	-
Max. Short-term Exposure	150 psig @ 210°F (48 hr)	1035 kPa @ 99°C (48 hr)	ASTM F876
UV Resistance	Class 3 – minimum of 6 months UV Resistance		ASTM F876

FUNCTIONAL DESCRIPTION

Stream33 PEX-B tube is made using the Sioplas method. This involves a 2 component extrusion with the base material comprising 95% of the end product and the catalyst to start the reaction accounting for the remaining 5%. The reaction begins at extrusion and is accelerated by curing at elevated temperatures and with moisture exposure.

Tube Operating Pressure/Temperatures

TEMPERATURE	HYDROSTATIC PSI (MAX)	OPERATING PSI WATER
73.4° F / 23° C	630	160
180° F / 82.2° C	400	100
200° F / 93.3° C	315	80

Minimum Bend Radius*

TUBE SIZE (CTS)	BEND RADIUS
1/2"	3.75"
3/4"	5.25"
1"	6.75"
1-1/4"	8.25"
1-1/2"	9.75"
2"	12.75"

*Radius for tubing without using bend support. Add 2x Tube OD of straight length when bending into a polymer fitting connection.

Flow Characteristics

GPM	1/2" PRESSURE DROP @ 60°F (PSI/100FT)	VELOCITY (FT/SEC)	3/4" PRESSURE DROP @ 60°F (PSI/) 100FT	VELOCITY (FT/SEC)	1" PRESSURE DROP @ 60°F (PSI/100FT)	VELOCITY (FT/SEC)
1	1.8	1.7	1.2	1.8	.4	1
2	5.9	3.5	2.4	2.7	.7	1.6
3	12.1	5.2	4.0	3.5	1.2	2.1
4	20.1	7	5.7	4.4	1.8	2.7
5			8.1	5.3	2.5	3.2
6			10.7	6.2	3.2	3.7
7			13.5	7.1	4.1	4.3
8					5.0	4.8
9					6.0	5.3

Support + Spacing

TUBE SIZE	HORIZONTAL SUPPORT SPACING	VERTICAL SUPPORT SPACING
1/2"	32"	Once Per Floor Penetration @ floor level. Once at midpoint of floor expanse or every 48"
3/4"	32"	
1"	32"	
1-1/4"	32"*	
1-1/2"	32"*	
2"	32"*	

*See individual mfg. instructions for continuous pipe support systems for large diameter horizontal arterial water mains.

LONG TERM STRENGTH

The maximum temperature and pressure ratings of the Stream33 PEX-B Pipe are in accordance to ASTM F876, CSA B137.5 and PPI TR-3. The designer shall determine the actual conditions and apply the appropriate and additional design factors as required for any particular project. The temperature and pressure ratings apply to the application of Stream33 PEX-B Pipe for conveying heating and cooling water at the 2.0 safety factor on allowable working pressure according to ASTM and CSA. According to the Stream33 PEX-B Pipe Limited Warranty, the Stream33 pipe warranty period of 25 years is for operating conditions at or below 180° F (82.2° C) in permitted applications when the handling, use, installation and maintenance continually complies with all Stream33 technical guidelines.

Maximum Pressure and Temperatures	Design Factors
160 psi @ 73.4° F (1055 kPa @ 23° C)	0.50 (per ASTM F876, CSA B137.5)
100 psi @ 180° F (690 kPa @ 82.2° C)	0.50 (per ASTM F876, CSA B137.5)
80 psi @ 200° F (550 kPa @ 93.3° C)*	0.50 (per ASTM F876, CSA B137.5)

* Stream33 defines Elevated Temperature Applications as those with operating conditions greater than 180°F (82.2°C). When Stream33 PEX-B Pipes are planned to be operated in Elevated Temperature Applications, contact Stream33 to verify your project conditions comply with the Stream33 PEX-B Pipe Limited Warranty.

Stream33 PEX-B Tube: Chlorine Resistance and UV Inhibition

PEX
5
3
0
6

Material _____

Chlorine Resistance _____
5 = (100% use at 140°F)

Minimum UV Resistance _____
3 = (6 months)

Hydrostatic Design Stress (HDS) at 23°C _____
06 = (06 x 100 psi or 630 psi)

Integer 1: (chlorine resistance) PER ASTM F2023

0 = Not tested for Chlorine resistance
1 = 25% use @ 140° F & 75% use @ 73° F
3 = 50% use @ 140° F & 50% use @ 73° F
5 = 100% use @ 140° F

Integer 2: (min. UV resistance) PER ASTM F2657

0 = Not tested for UV exposure
1 = Max exposure of 1 month
2 = Max exposure of 3 months
3 = Max exposure of 6 months

Integer 3 & 4:
(HDS @ 73° F) × 100 psi.

06 = 630 psi

FITTING COMPATIBILITY

For potable water applications, ensure that the fitting system is certified to NSF/ANSI 61 and complies with the lead-free requirements of the U.S Safe Drinking Water Act.

Stream33 PEX-B pipe has been tested and found to be compatible with the following fitting systems:

ASTM F1960 cold expansion pex fittings

ASTM F1807 metal insert crimp fittings

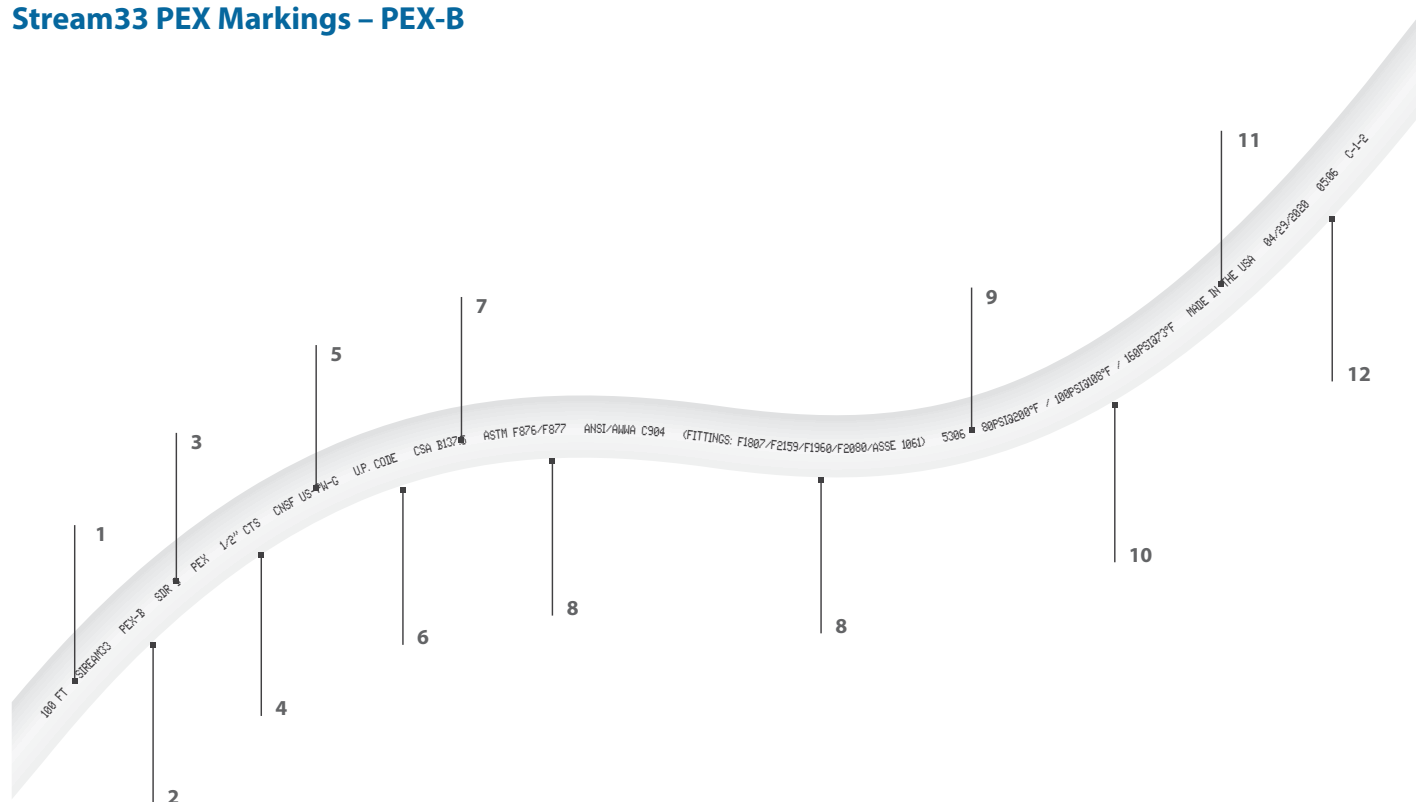
ASTM F2159 plastic insert crimp fittings

ASTM F3347 metal insert press sleeve fittings

ASTM F3348 metal insert press sleeve fittings

ASSE 1061 push-fit fittings

Stream33 PEX Markings – PEX-B



PRINTED MARKINGS ON TUBING		EXPLANATION
1	STREAM33	Company Name
2	PEX TUBING	Product Name
3	SDR9 PEX	Standard Dimensional Ratio For Fitting Size Acceptance
4	1/2" CTS	Tubing Size
5	CNSF US-PW-G	National Sanitation Foundation Mark for Toxicity & Performance Certification
6	UP. CODE	IAPMO Listing = Model Plumbing Code Body
7	CSA B137.5	CSA Listing & Canadian Certification
8	ASTM F876/F877 FITTINGS: F1807/F2159/F1960/F2080/ASSE 1061	Applicable ASTM Standard Certifications for Performance & Manufacturers
9	5306	Chlorine & UV Resistance Per Standard
10	160PSI@73.4°F / 100PSI@180°F / 80PSI@200°F	Pressure & Temperature Rating
11	MADE IN THE USA	Country of Origin
12	04/29/2020 05:06 C-1-2	Date Stamp, Time Stamp & Manufacturer's Line Tracking Number