TYPE-B PEX TUBE

>> 664 & 665 SERIES

PowerPEX®

SPECIFICATION

Sioux Chief PowerPEX® Type-B tube shall be used in hot and cold potable water distribution or for approved non-potable system applications. Tube shall be SDR-9, and made in accordance with the ASTM F876 and ASTM F877 standards, for use with ASTM approved connection systems.

MATERIALS

Cross-linked polyethylene - Silane Graft Process

APPROVED APPLICATIONS

Plumbing, Radiant Heat, Fire Suppression, Geothermal, Water Reclamation, Turf Conditioning, Irrigation

APPROVED FITTING SYSTEMS

ASTM F1807 / ASTM F2080 / ASTM F1960 / ASTM F2159 / ASSE 1061

REQUIREMENTS PER ASTM F876

Tubing conforms to ID/OD and wall thickness tolerances, hydrostatic sustained pressure, burst pressure, density, % cross-linking, material, out-of-roundness, workmanship, pressure @ hydrostatic designed stress, stress-corrosion cracking resistance, bent strength, oxidative stability, excessive temperature and pressure capacity, pipe dimensional ratio, chlorine resistance and UV resistance.

PRESSURE DROP @ 8 FPS

1/8"	data not available	3/4"	$(0.174 \text{ factor } @ 9 \text{ GPM} \times \text{ft})$
1/4"	(0.40 factor @ 1.25 GPM × ft)	1"	(0.148 factor @ 16 GPM × ft)
3/8"	(0.050 factor @ 2.47 GPM × ft)	1-1/4"	(0.199 factor @ 24 GPM × ft)
1/2"	(0.208 factor @ 4 GPM × ft)	1-1/2"	(0.08 factor @ 16 GPM × ft)
5/8"	(0.189 factor @ 5.5 GPM × ft)	2"	(0.37 factor @ 34 GPM × ft)

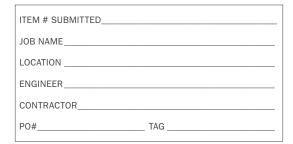
DIMENSIONS

Size (Nom. CTS)	1/8"	1/4"	3/8"	1/2"	5/8"
Outer diameter ¹	0.25"	0.375"	0.50"	0.625"	0.75"
Wall thickness ¹	0.047"	0.062"	0.070"	0.070"	0.083"
Inner diameter ²	0.156"	0.251"	0.36"	0.485"	0.584"
Coil inner diameter	22"	22"	22"	24"	24"
Size (Nom. CTS)	3/4"	1"	1-1/4"	1-1/2"	2"
Outer diameter ¹	0.875"	1.125"	1.375"	1.625"	2.125"
Wall thickness ¹	0.097"	0.125"	0.153"	0.181"	0.236"
Inner diameter ²	0.681"	0.875"	1.069"	1.263"	1.653"
Coil inner diameter					

^{1:} Per ASTM F876 | 2: Calculated

TUBE PRINT STREAM (EXAMPLE)

SIOUX CHIEF POWERPEX SDR 9 PEX 1/2" CTS CNSFUS-PW-G U.P. CODE CSA B137.5 ASTM F876/F877 ANSI/AWWA C904 (FITTINGS: F1807/F2159/F1960/F2080/ASSE 1061) 5306 80PSI@200°F/100PSI@180°F/160PSI@73°F MADE IN THE USA (DATE)





CHLORINE/UV RESISTANCE

5306 (non-barrier), 5006 (barrier)

LISTINGS & CERTIFICATIONS

NSF-14, NSF-61, cNSFus-PW, CAN/UL 18213 ASTM F876 / F877, IAPMO/cUPC ASTM F1807 / F2080 / F2159 / F1960

Listed by Intertek to meet:

- · Flame Spread ASTM E-84 | CAN/ULC S102.2: <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"
- Fire Rating ASTM E-119 | CAN/ULC S101: 2hrs Design No: SCMC/DWP 120-01 1hr Design No: SCMC/DWP 60-01 1hr Design No: SCMC/DWP 60-02

3: 3/4" and 1" sizes only

Create Item Number

ABCD

e.g. 665X2W100: PowerPEX Type-B PEX tube, 1/2", White, 100-ft coil.

COIL OR STICKS A 664X = Sticks

665X = Coil

NOM. TUBE SIZE B 8 = 1/8" (1/4" OD)3 = 3/4" 0 = 1/4" (3/8" OD) 4 = 1" 1 = 3/8" (1/2" OD)5 = 1-1/4" **2** = 1/2" 6 = 1-1/2" COLOR C $\mathbf{R} = \text{Red}$ W = White **B** = Blue H = Orange⁴ **LENGTH D 10** = 10-ft sticks **20** = 20-ft sticks 100 = 100-ft coil

300 = 300-ft coil 500 = 500-ft coil **1000** = 1000-ft coil

9 = 5/8" ID7 = 2"









4: The 'H' designation indicates oxygen-barrier tube. All oxygen-barrier tube is orange color. Note: Not all option combinations are available - please check our website or current catalog for product availability