

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 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 factor @ 9 GPM × 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)		

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"	
Outer diameter ¹	0.875"	1.125"	1.375"	1.625"	
Wall thickness ¹	0.097"	0.125"	0.153"	0.181"	
Inner diameter ²	0.681"	0.875"	1.069"	1.263"	
Coil inner diameter	24"	30"	30"	68"	

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/ASSE 1061) 5306 80PSI@200°F/100PSI@180°F/160PSI@73°F MADE IN THE USA (DATE)

ITEM # SUBMITTED	_____
JOB NAME	_____
LOCATION	_____
ENGINEER	_____
CONTRACTOR	_____
PO#	_____ TAG _____



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 / 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"
9 = 5/8" ID

COLOR C

R = Red
W = White
B = Blue
H = Orange⁴

LENGTH D

5M = 5-ft sticks **10** = 10-ft sticks
20 = 20-ft sticks **100** = 100-ft coil
300 = 300-ft coil **500** = 500-ft coil
1000 = 1000-ft coil

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

