

PEX TUBE

664X & 665X SERIES

PowerPEX®

SPECIFICATION

Sioux Chief PowerPEX® tubing shall be used in hot and cold potable water distribution or for approved non-potable system applications. PowerPEX® Type-B tube is available in 1/8" – 2" sizes, in red, white and blue colors, as sticks and coils. PowerPEX® Type-A tube is available in 1/2" – 2" sizes, as sticks and coils. PowerPEX® tube is SDR-9, made to ASTM F876 and ASTM F877 standards for use with ASTM approved connection systems.

MATERIALS

Crosslinked polyethylene - Silane Graft Process (Type-B), Engle Process (Type-A)

APPLICATIONS

Plumbing, Radiant, 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/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/pressure capacity, pipe dimensional ratio, chlorine resistance and UV resistance.

LISTINGS

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

PRESSURE DROP @ 8 FPS

1/2": (.208 factor @ 4 GPM × ft)	1 1/4": (.199 factor @ 24 GPM × ft)
3/4": (.174 factor @ 9 GPM × ft)	1 1/2": (.08 factor @ 16 GPM × ft)
1": (.148 factor @ 16 GPM × ft)	

DIMENSIONS

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
OD*	0.625"	0.875"	1.125"	1.375"	1.625"	2.125"
Wall*	0.070"	0.097"	0.125"	0.153"	0.181"	0.236"
ID (calculated)	0.485"	0.681"	0.875"	1.069"	1.263"	1.653"
Coil ID	24"	24"	30"	30"	68"	68"

* Per ASTM F876

TUBE PRINT STREAM EXAMPLE (TYPE-B)

SIoux CHIEF POWERPEX CUPC CSA B137.5 NSF-PW ASTM F876/F877/F1807/F2159/F2080/F1960/F2023 SDR-9 PEX 1/2" CTS 5306 80PSI@200°/100PSI@180°/160PSI@73°
MADE IN THE USA (DATE) (TIME STAMP) (LINE) (CURING)

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



CHLORINE/UV RESISTANCE

Type-B: 5306 (non-barrier), 5006 (barrier)

Type-A: 3306 (white), 3006 (natural), 1006 (barrier)

CERTIFICATIONS/APPROVALS

Type-B: 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



Create Item Number

66ABCD

e.g. **664X2W20:** PowerPEX Type-B PEX tube, 1/2", White, 20-ft sticks

TUBE TYPE A

4X = Type-B Sticks
5X = Type-B Coils
4XA = Type-A Sticks
5XA = Type-A Coils

SIZE B

0 = 1/4" (3/8" OD) **5** = 1-1/4"
1 = 3/8" (1/2" OD) **6** = 1-1/2"
2 = 1/2" **7** = 2"
3 = 3/4" **8** = 1/8" (1/4" OD)
4 = 1" **9** = 5/8" ID

COLOR C

W = White
R = Red
B = Blue
N = Natural (Type-A only)
H = Orange (Barrier Type-B only)

LENGTH D

10 = 10-ft sticks
20 = 20-ft sticks
100 = 100-ft coil
250 = 250-ft coil
300 = 300-ft coil
500 = 500-ft coil
1000 = 1,000-ft coil

Below items for Type-A Only:

5H = 10-ft sticks
20H = 20-ft sticks
100H = 100-ft coil
300H = 300-ft coil
1000H = 1,000-ft coil