

# PEX TUBE

▶▶ 664X, 665X, 664XA & 665XA SERIES

PowerPEX®

## SPECIFICATION

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

## MATERIALS

Type-B PEX (Silane Graft Process)

Type-A PEX (Engle Process)

## APPLICATIONS

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

## APPROVED FITTING SYSTEMS

PEX-B Tubing: ASTM F1807 / ASTM F2080 / ASTM F1960 / ASTM F2159

PEX-A Tubing: ASTM F1807 / ASTM F2080 / ASTM F1960 / ASTM F2159

## 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 (SCC) resistance, bent strength, oxidative stability, excessive temperature/pressure capacity, pipe dimensional ratio, chlorine resistance and uv resistance.

## CHLORINE RESISTANCE / UV RESISTANCE

PEX-B Tubing: 5206 or 5306

PEX-A White (1 1/2" & 2"): 3306

PEX-A Natural (1/2", 3/4", 1"): 3006 or 1006 (straights and barrier options)

## HANDLING

See instruction manual and direct tube labeling.

## LISTINGS

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

## DIMENSIONS

	1/2" & 3/4"	1"	1 1/4"	1 1/2"	2"
ID of coil:	24"	30"	30"	68"	68"

## PRESSURE DROP @ 8 F.P.S

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)	

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



665X3B100

Size	OD*	Wall*	Calculated ID
1/2	.625	.070	.485
3/4	.875	.097	.681
1	1.125	.125	.875
1 1/4	1.375	.153	1.069
1 1/2	1.625	.181	1.263
2	2.125	.236	1.653

\*Source: ASTM F876 middle of spec used

## TUBE PRINT STREAM EXAMPLE (FOR 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) (SCM)



## Create Item Number

**66ABCD**

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

### TUBE TYPE A

- 4X = Type-B straight lengths
- 5X = Type-B coils
- 4XA = Type-A straight lengths
- 5XA = Type-A coils

### SIZE B

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

### COLOR C

- W = White
- R = Red
- B = Blue
- N = Natural (Type-A only)
- H = Orange (O<sub>2</sub>-Barrier Type-B)

### LENGTH D

- 10 = 10' stick
- 20 = 20' stick
- 100 = 100' coil
- 300 = 300' coil
- 500 = 500' coil
- 1000 = 1000' coil
- 250 = 250' coil (Type-A only)
- 5H = 5' stick (Type-A only)
- 20H = 20' stick (Type-A only)
- 100H = 100' coil (Type-A only)
- 300H = 300' coil (Type-A only)
- 1000H = 1000' coil (Type-A only)