

# 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

<b>Size</b>	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
<b>OD*</b>	0.625"	0.875"	1.125"	1.375"	1.625"	2.125"
<b>Wall*</b>	0.070"	0.097"	0.125"	0.153"	0.181"	0.236"
<b>ID (calculated)</b>	0.485"	0.681"	0.875"	1.069"	1.263"	1.653"
<b>Coil ID</b>	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)  
**1** = 3/8" (1/2" OD)  
**2** = 1/2"  
**3** = 3/4"  
**4** = 1"  
**5** = 1-1/4"  
**6** = 1-1/2"  
**7** = 2"  
**8** = 1/8" (1/4" OD)  
**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