

PEX TUBE

▶▶ 664X & 665X 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 x ft)	1 1/4": (.199 factor @ 24 GPM x ft)
3/4": (.174 factor @ 9 GPM x ft)	1 1/2": (.08 factor @ 16 GPM x ft)
1": (.148 factor @ 16 GPM x ft)	

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

66 A B C D

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) 8 = 1/8" (3/4 OD)
1 = 3/8" (1/2 OD) 9 = 5/8" ID
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 (O₂-Barrier Type-B)

LENGTH D

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

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