INFLOOR HEATING SYSTEMS

Infloor BPEX Cross-Linked Polyethylene Tubing Specifications

Product Details

Infloor BPEX is cross-linked polyethylene tubing used for radiant floor heating, snow melting, hot water baseboard applications. Infloor BPEX is manufactured with an integral ethyl vinyl alcohol (EVOH) barrier that limits oxygen diffusion through the pipe walls to less that 0.10g/m^3/day at 104 F water temperature (as per DIN 4726 standard). All sizes are SDR-9 Dimensions and are manufactured to ASTM-876 and ASTM-877 standards. All Infloor BPEX Tubing is listed by the National Sanitation Foundation to NSF14 and NSF61 Standards and the International Code Council Evaluation Services (ICC-ES) Reports # ESR-1929. Infloor Bpex is Certified to CSA Standard B137.5

Infloor BPEX has a maximum working pressure/temperature of 160 psi at 73.4 F, 100 psi at 180 F and 80 psi and 200 F.

Infloor Heating Systems warrants its Infloor Bpex cross-linked polyethylene tubing to be free of defects in materials and workmanship for a period of twenty-five (25)from date of manufacture. For more complete information please see warranty sheet.

All Infloor Bpex tubing is manufactured in the United States of America.

Description	Wall Thickness	Nominal I.D.	Nominal O.D.	Coil Lengths	Bend Radius	Thermal Expansion Per 100 ft / 10 °F	Weight Per 100 feet	Fluid Capacity/ 100'
3/8" BPEX	.070 + .010	.360"	1/2"	600', 900'	4"	0.95"	4.0 lbs.	0.53 gal.
1/2" BPEX	.070 + .010	.485"	5/8"	300', 900', 1000'	5"	0.95"	5.5 lbs.	0.96 gal.
5/8" BPEX	.083 + .01	.584"	3/4"	500', 1000'	6"	0.95"	7.8 lbs.	1.40 gal.
3/4" BPEX	097 + .010	.681"	7/8"	300', 1000 '	7"	0.95"	10.5 lbs.	1.90 gal.
1" BPEX	1. 25 + .010	.875"	1-1/8"	500'	10"	0.95"	17.2 lbs.	3.12 gal.

SDR9-CTS PEX Pressure Loss Per/100 Ft. With 100% Water @120 F (Maximum Velocity 4.5 FPS)

	3/8"		1/2"		5/8"		3/4"		1"	
GPM	PSI	FPS	PSI	PS	PSI	PS	PSI	PS	PSI	PS
0.1	0.093	0.315	0.222	0.174	0.010	0.125	0.004	0.088	0.001	0.053
0.2	0.334	0.630	0.078	0.347	0.035	0.250	0.015	0.176	0.004	0.107
0.3	0.707	0.945	0.166	0.521	0.074	0.374	0.032	0.264	0.009	0.160
0.4	1.204	1.260	0.282	0.694	0.127	0.499	0.054	0.352	0.016	0.213
0.5	1.819	1.575	0.427	0.868	0.191	0.624	0.082	0.440	0.024	0.267
0.6	2.459	1.890	0.598	1.041	0.268	0.749	0.115	0.528	0.034	0.320
0.7	3.390	2.205	0.795	1.215	0.356	0.874	0.152	0.616	0.045	0.373
0.8	4.340	2.520	1.018	1.389	0.456	0.998	0.195	0.704	0.058	0.427
0.9	5.397	2.835	1.266	1.562	0.567	1.123	0.243	0.792	0.072	0.480
1.0	6.558	3.150	1.538	1.736	0.689	1.248	0.295	0.880	0.087	0.533
1.2	9.189	3.781	2.155	2.083	0.966	1.497	0.413	1.056	0.122	0.640
1.4	12.221	4.411	2.866	2.430	1.284	1.747	0.550	1.233	0.162	0.747
1.6			3.670	2.777	1.644	1.997	0.704	1.409	0.208	0.853
1.8			4.563	3.124	2.045	2.246	0.875	1.585	0.258	0.960
2.0			5.545	3.472	2.485	2.496	1.063	1.761	0.314	1.067
2.2			6.614	3.819	2.964	2.745	1.268	1.937	0.375	1.173
2.4			7.769	4.166	3.481	2.995	1.490	2.113	0.440	1.280
2.6			9.009	4.513	4.037	3.245	1.728	2.289	0.510	1.387
2.8					4.630	3.494	1.982	2.465	0.585	1.493
3.0					5.261	3.744	2.251	2.641	0.665	1.600

	5/8"		3/4"		1"	
GPM	PSI	FPS				
3.2	5.928	3.993	2.537	2.817	0.749	1.707
3.4	6.631	4.243	2.838	2.993	0.838	1.813
3.6	7.371	4.492	3.155	3.169	0.932	1.920
3.8			3.487	3.346	1.030	2.026
4.0			3.834	3.522	1.132	2.133
4.5			4.767	3.962	1.408	2.400
5.0			5.793	4.402	1.711	2.666
5.5					2.041	2.933
6.0					2.397	3.200
6.5					2.780	3.466
7.0					3.188	3.733
7.5					3.622	4.000
8.0						4.266
8.5					4.566	4.533
9.0						
		Velocities Exceed 4.5 fps				

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Project Information

Project Name: _____ Submitted: _____ Date: _____

Engineer: _____ Approved: _____ Date: _____