

► PE 4710 IPS – GEOTHERMAL PIPE
Iron Pipe Size HDPE
Black

12/06

Designed for Geothermal Heat Exchangers

ASTM D 3035

PIPE SIZE	O.D. ACTUAL		DR 9 PC 255	DR 11 PC 200	DR 13.5 PC 160	DR 17 PC 128
		MIN WALL	.117	.095	.078	
¾"	1.050	Weight per 100'	15.00	13.00	11.00	
		MIN WALL	.146	.120	.097	
1"	1.315	Weight per 100'	24.00	20.00	17.00	
		MIN WALL	.184	.151	.123	
1-1/4"	1.660	Weight per 100'	37.00	32.00	27.00	
		MIN WALL	.211	.173	.141	
1-1/2"	1.900	Weight per 100'	49.00	41.00	34.00	
		MIN WALL	.264	.216	.176	
2"	2.375	Weight per 100'	77.00	64.00	53.00	
		MIN WALL	.389	.318	.259	.206
3"	3.500	Weight per ft	1.66	1.39	1.16	.93
		MIN WALL	.500	.409	.333	.265
4"	4.500	Weight per ft	2.75	2.30	1.91	1.55
		MIN WALL	.736	.602	.491	.390
6"	6.625	Weight per ft	5.95	4.99	4.15	3.35
		MIN WALL	.958	.784	.639	.507
8"	8.625	Weight per ft	10.09	8.46	7.03	5.68
		MIN WALL	1.194	.977	.796	.632
10"	10.750	Weight per ft	15.68	13.14	10.92	8.82
		MIN WALL	1.417	1.159	.944	.750
12"	12.750	Weight per ft	22.07	18.49	15.35	12.41

Weight Calculations are based on PPI TR7
 Available in straight lengths, coils or mileage reel
 Prices subject to change without notice

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SPECIFICATIONS:

PE 4710 Resin listed in PPI TR4
1600 psi Hydrostatic Design Basis
1000 psi Hydrostatic Design Stress
PE 4710 utilizes a .63 design factor.
3/4" – 12" pipe: ASTM D3035

Cell Classification per ASTM D3350 = 445474C

Charter Geo Loops:

Charter Geo Loops come as a single coil. Each loop is comprised of a supply and return pipe made to your specified length, run parallel, with a Charter U-Bend (180° fitting) factory fused to one end. The other end of the pipe is sealed and the entire coil is pressurized with air.

Charter Geo Loops are available in 3/4", 1" and 1-1/4" IPS pipe sizes.

Pressure Ratings:

All pressure ratings are a maximum PSI @ 73.4°F.
If temperatures exceed 80°F, contact Charter Plastics for a working pressure de-rating.

Joining:

Charter Plastics IPS pipe is based on outside diameter. Heat fusion is the preferred method for joining this pipe. All personnel conducting fusions should be experienced and follow guidelines published by the pipe manufacturer or by PPI in TR 33. It may also be joined with OD Mechanical fittings designed for pipe made to D 3035 Standards. A stiffener should be inserted when using OD Compression type fittings on pipe ≤ 2".

Never use any lubricant on the pipe. Do not expose the pipe to direct flame.

Installing:

Charter Geo Loops are designed to be used in vertical well applications as well as horizontal installations. All pipe installed down wells should be grouted with bentonite. Horizontally run pipe must be buried below the frost line and each pipe should be fully surrounded and supported by proper embedment material like sand or gravel. Do not lay pipe directly on top of pipe without proper embedment between each layer.

Refer to PPI's "Handbook of Polyethylene Pipe", the IGSHPA Installation Manual and follow as local, state or federal guidelines.

This pipe is not designed for in house use or for hot water applications.

Safe Handling:

To safely handle and store polyethylene pipe, refer to PPI's "Material Handling Guide."

Testing:

All pipe should be hydrostatically tested after installation. Pneumatic testing is not recommended.