



**WL PLASTICS**  
An INEOS Business

# WL139 Geothermal HDPE Pipe



Potable Water,  
Irrigation & Geothermal

The ideal piping solution

# WL139 Geothermal HDPE Pipe

WL Plastics offers Geothermal PE4710 HDPE pipe for heat exchange systems in solid black color.

| Black             | PC <sup>B</sup> , psi | 250    | 200    | 160    | 140    | 125    |
|-------------------|-----------------------|--------|--------|--------|--------|--------|
| Size <sup>A</sup> | DR                    | 9      | 11     | 13.5   | 15.5   | 17     |
| 3/4               | Min wall, in          | 0.117  | 0.095  | 0.078  |        |        |
|                   | Avg ID, in            | 0.803  | 0.848  | 0.874  |        |        |
|                   | Weight, lb/ft         | 0.148  | 0.124  | 0.103  |        |        |
| 1                 | Min wall, in          | 0.146  | 0.120  | 0.097  |        |        |
|                   | Avg ID, in            | 1.005  | 1.062  | 1.101  |        |        |
|                   | Weight, lb/ft         | 0.232  | 0.195  | 0.161  |        |        |
| 1 1/4             | Min wall, in          | 0.184  | 0.151  | 0.123  | 0.107  |        |
|                   | Avg ID, in            | 1.269  | 1.340  | 1.394  | 1.426  |        |
|                   | Weight, lb/ft         | 0.369  | 0.310  | 0.257  | 0.226  |        |
| 1 1/2             | Min wall, in          | 0.211  | 0.173  | 0.141  | 0.123  |        |
|                   | Avg ID, in            | 1.452  | 1.534  | 1.598  | 1.634  |        |
|                   | Weight, lb/ft         | 0.485  | 0.406  | 0.337  | 0.297  |        |
| 2                 | Min wall, in          | 0.264  | 0.216  | 0.176  | 0.153  | 0.140  |
|                   | Avg ID, in            | 1.816  | 1.917  | 2.002  | 2.050  | 2.079  |
|                   | Weight, lb/ft         | 0.758  | 0.634  | 0.526  | 0.462  | 0.425  |
| 3                 | Min wall, in          | 0.389  | 0.318  | 0.259  | 0.226  | 0.206  |
|                   | Avg ID, in            | 2.676  | 2.825  | 2.950  | 3.021  | 3.064  |
|                   | Weight, lb/ft         | 1.646  | 1.376  | 1.141  | 1.006  | 0.923  |
| 4                 | Min wall, in          | 0.500  | 0.409  | 0.333  | 0.290  | 0.265  |
|                   | Avg ID, in            | 3.440  | 3.633  | 3.793  | 3.885  | 3.939  |
|                   | Weight, lb/ft         | 2.720  | 2.275  | 1.887  | 1.660  | 1.526  |
| 6                 | Min wall, in          | 0.736  | 0.602  | 0.491  | 0.427  | 0.390  |
|                   | Avg ID, in            | 5.064  | 5.348  | 5.585  | 5.719  | 5.799  |
|                   | Weight, lb/ft         | 5.894  | 4.930  | 4.095  | 3.599  | 3.307  |
| 8                 | Min wall, in          | 0.958  | 0.784  | 0.639  | 0.556  | 0.507  |
|                   | Avg ID, in            | 6.593  | 6.963  | 7.271  | 7.445  | 7.549  |
|                   | Weight, lb/ft         | 9.988  | 8.359  | 6.939  | 6.100  | 5.597  |
| 10                | Min wall, in          | 1.194  | 0.977  | 0.796  | 0.694  | 0.632  |
|                   | Avg ID, in            | 8.218  | 8.678  | 9.062  | 9.280  | 9.409  |
|                   | Weight, lb/ft         | 15.515 | 12.983 | 10.774 | 9.490  | 8.695  |
| 12                | Min wall, in          | 1.417  | 1.159  | 0.944  | 0.823  | 0.750  |
|                   | Avg ID, in            | 9.747  | 10.293 | 10.748 | 11.006 | 11.160 |
|                   | Weight, lb/ft         | 21.837 | 18.267 | 15.155 | 13.348 | 12.238 |

- PE4710 materials with cell classification of PE445576C per WL106 Pipe Compound.
- Geo Loops single coils are offered in sizes ¾" to 1½". Each loop is comprised of a supply and return pipe.
- Several coil lengths available with U-Bend (180° fitting) factory fused to one end. Coil is sealed and pressurized with air.
- Heat fusion joining is preferred, but when using mechanical fittings an ID stiffener is required on pipes sizes < 2".
- WL Plastics Geothermal pipe is designed to be used in vertical or horizontal applications, down well applications, pond loops and can be horizontally directionally drilled.
- Designers must ensure that the heat transfer fluid is compatible with the pipe and all system components.

Contact WL Plastics Customer Service to confirm availability and for PCs and DRs not shown.

- R pipe sizes are manufactured per ASTM D3035 and ASTM F714.
- Pressure Class rating (PC) in psi is for water at 73°F (23°C) and lower. PC will vary for water at other temperatures. See WL106 PE4710 Pipe Compound and WL118 Pressure Rating.
- All dimensions in inches.
- NSF-61 and NSF-14 certifications for potable water available on "Engineering Info" portion of [www.wlplastics.com](http://www.wlplastics.com)
- See WL101 for fusion and field procedures, including mechanical joining, installation information and repair.
- See WL125 Terms and Conditions of Sale.



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## Manufacturing locations

- Bowie, TX
- Casper, WY
- Cedar City, UT
- Elizabethtown, KY
- Lubbock, TX (HDPE)
- Lubbock, TX (MDPE)
- Rapid City, SD
- Snyder, TX
- Statesboro, GA
- Titusville, PA (HDPE/MDPE)

## Corporate office

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## Contact

Contact WL Plastics for more information

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