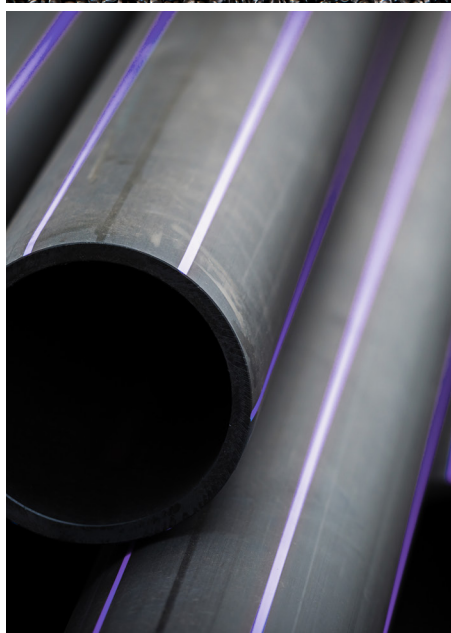
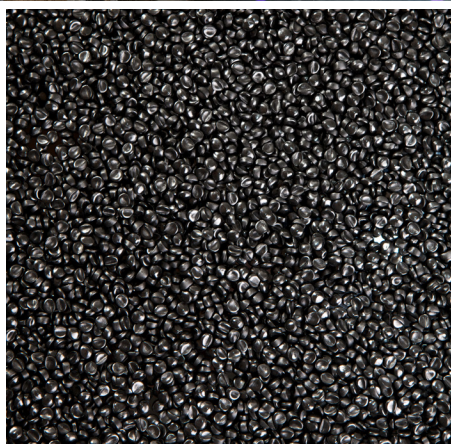




### WZHETON *(wuh-je-tone)*

Means build something in the Potawatomi language.

### APPLICATIONS

Industrial Pipe is PE 4710 performance high-density polyethylene (HDPE) pipe designed for general industrial applications. It is intended for new construction and insertion renewal of old piping systems used to transport municipal sewage, domestic sewage, industrial process liquids, effluents, slurries, etc., in both pressure and non-pressure systems. It is NOT intended for potable water applications.

### CONFORMANCE

- ASTM F714, "Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR Based on Outside Diameter.)"
- Cell Classification PE445574C per ASTM D3350
- Color & UV Stabilizer: (C) Black with 2% min Carbon Black per ASTM D3350
- Heat Fusion Joining as per ASTM F2620 and PPI TR-33/TR-41.
- Installation as per AWWA M55 and PPI PE Pipe Handbook, 2nd ed.
- Leak testing should be performed according to ASTM F2164, "Standard Practice for Field Leak Testing of Polyethylene (PE) and Crosslinked Polyethylene (PEX) Pressure Piping Systems Using Hydrostatic Pressure." Appropriate safety considerations should always be followed.

| IPS  |         | PR <sup>A</sup> / PC <sup>B</sup> | 335    | 250     | 200     | 160     | 125     | 100     |
|------|---------|-----------------------------------|--------|---------|---------|---------|---------|---------|
| Size | OD (in) | DR                                | 7      | 9       | 11      | 13.5    | 17      | 21      |
| 4"   | 4.5     | Min Wall                          | 0.643  | 0.500   | 0.409   | 0.333   | 0.265   | 0.214   |
|      |         | (in)                              | 3.137  | 3.440   | 3.633   | 3.793   | 3.939   | 4.046   |
|      |         | ID <sup>C</sup> (in)              | 3.402  | 2.751   | 2.307   | 1.914   | 1.548   | 1.268   |
| 6"   | 6.625   | Lb / Ft <sup>C</sup>              | 0.946  | 0.736   | 0.602   | 0.491   | 0.390   | 0.315   |
|      |         | Min Wall                          | 4.619  | 5.065   | 5.348   | 5.585   | 5.799   | 5.956   |
|      |         | (in)                              | 7.373  | 5.961   | 4.994   | 4.151   | 3.354   | 2.747   |
| 8"   | 8.625   | ID <sup>C</sup> (in)              | 1.232  | 0.958   | 0.784   | 0.639   | 0.507   | 0.411   |
|      |         | Lb / Ft <sup>C</sup>              | 6.013  | 6.594   | 6.960   | 7.270   | 7.550   | 7.750   |
|      |         | Min Wall                          | 12.498 | 10.108  | 8.468   | 7.035   | 5.689   | 4.658   |
| 10"  | 10.75   | (in)                              | 1.536  | 1.194   | 0.977   | 0.796   | 0.632   | 0.512   |
|      |         | ID <sup>C</sup> (in)              | 7.494  | 8.219   | 8.680   | 9.060   | 9.410   | 9.660   |
|      |         | Lb / Ft <sup>C</sup>              | 19.417 | 15.699  | 13.158  | 10.931  | 8.834   | 7.247   |
| 12"  | 12.75   | Min Wall                          | 1.821  | 1.417   | 1.159   | 0.944   | 0.750   | 0.607   |
|      |         | (in)                              | 8.889  | 9.746   | 10.290  | 10.750  | 11.160  | 11.460  |
|      |         | ID <sup>C</sup> (in)              | 27.315 | 22.089  | 18.513  | 15.377  | 12.427  | 10.193  |
| 14"  | 14      | Lb / Ft <sup>C</sup>              | 2.000  | 1.556   | 1.273   | 1.037   | 0.824   | 0.667   |
|      |         | Min Wall                          | 9.760  | 10.701  | 11.300  | 11.800  | 12.250  | 12.590  |
|      |         | (in)                              | 32.930 | 26.629  | 22.314  | 18.538  | 14.984  | 12.288  |
| 16"  | 16      | ID <sup>C</sup> (in)              | 2.286  | 1.778   | 1.455   | 1.185   | 0.941   | 0.762   |
|      |         | Lb / Ft <sup>C</sup>              | 11.154 | 12.231  | 12.920  | 13.490  | 14.000  | 14.380  |
|      |         | Min Wall                          | 43.012 | 34.772  | 29.149  | 24.213  | 19.576  | 16.042  |
| 18"  | 18      | (in)                              | 2.571  | 2.000   | 1.636   | 1.333   | 1.059   | 0.857   |
|      |         | ID <sup>C</sup> (in)              | 12.549 | 13.760  | 14.530  | 15.170  | 15.760  | 16.180  |
|      |         | Lb / Ft <sup>C</sup>              | 54.435 | 44.017  | 36.897  | 30.644  | 24.767  | 20.313  |
| 20"  | 20      | Min Wall                          | 2.857  | 2.222   | 1.818   | 1.481   | 1.176   | 0.952   |
|      |         | (in)                              | 13.943 | 15.289  | 16.150  | 16.860  | 17.510  | 17.980  |
|      |         | ID <sup>C</sup> (in)              | 67.211 | 54.351  | 45.535  | 37.832  | 30.575  | 25.077  |
| 22"  | 22      | Lb / Ft <sup>C</sup>              | 3.143  | 2.444   | 2.000   | 1.630   | 1.294   | 1.048   |
|      |         | Min Wall                          | 15.337 | 16.819  | 17.760  | 18.550  | 19.260  | 19.780  |
|      |         | (in)                              | 81.308 | 65.752  | 55.105  | 45.777  | 37.004  | 30.318  |
| 24"  | 24      | ID <sup>C</sup> (in)              | 3.429  | 2.667   | 2.182   | 1.778   | 1.412   | 1.143   |
|      |         | Lb / Ft <sup>C</sup>              | 16.731 | 18.346  | 19.370  | 20.230  | 21.010  | 21.580  |
|      |         | Min Wall                          | 96.767 | 78.261  | 65.586  | 54.478  | 44.018  | 36.083  |
| 26"  | 26      | (in)                              | 2.889  | 2.364   | 1.926   | 1.529   | 1.238   | 1.033   |
|      |         | ID <sup>C</sup> (in)              | 19.875 | 20.990  | 21.920  | 22.760  | 23.380  | 23.800  |
|      |         | Lb / Ft <sup>C</sup>              | 91.832 | 76.952  | 63.936  | 51.675  | 42.362  | 34.362  |
| 28"  | 28      | Min Wall                          |        | 3.111   | 2.545   | 2.074   | 1.647   | 1.333   |
|      |         | (in)                              |        | 21.405  | 22.600  | 23.600  | 24.510  | 25.170  |
|      |         | ID <sup>C</sup> (in)              |        | 106.517 | 89.255  | 74.182  | 59.934  | 49.119  |
| 30"  | 30      | Lb / Ft <sup>C</sup>              |        | 3.333   | 2.727   | 2.222   | 1.765   | 1.429   |
|      |         | Min Wall                          |        | 22.934  | 24.220  | 25.290  | 26.260  | 26.970  |
|      |         | (in)                              |        | 122.260 | 102.470 | 85.155  | 68.812  | 56.389  |
| 32"  | 32      | ID <sup>C</sup> (in)              |        |         | 2.909   | 2.370   | 1.882   | 1.524   |
|      |         | Lb / Ft <sup>C</sup>              |        |         | 25.830  | 26.970  | 28.010  | 28.770  |
|      |         | Min Wall                          |        |         | 116.597 | 96.885  | 78.266  | 64.169  |
| 34"  | 34      | (in)                              |        |         | 3.091   | 2.519   | 2.000   | 1.619   |
|      |         | ID <sup>C</sup> (in)              |        |         | 27.450  | 28.660  | 29.760  | 30.570  |
|      |         | Lb / Ft <sup>C</sup>              |        |         | 131.600 | 109.372 | 88.370  | 72.430  |
| 36"  | 36      | Min Wall                          |        |         | 3.273   | 2.667   | 2.118   | 1.714   |
|      |         | (in)                              |        |         | 29.060  | 30.350  | 31.510  | 32.370  |
|      |         | ID <sup>C</sup> (in)              |        |         | 147.549 | 122.616 | 99.081  | 81.208  |
| 42"  | 42      | Lb / Ft <sup>C</sup>              |        |         | 3.818   | 3.111   | 2.471   | 2.000   |
|      |         | Min Wall                          |        |         | 33.910  | 35.400  | 36.760  | 37.760  |
|      |         | (in)                              |        |         | 200.836 | 166.886 | 134.852 | 110.542 |
| 48"  | 48      | ID <sup>C</sup> (in)              |        |         |         | 3.556   | 2.824   | 2.286   |
|      |         | Lb / Ft <sup>C</sup>              |        |         |         | 40.460  | 42.010  | 43.150  |
|      |         | Min Wall                          |        |         |         | 217.960 | 176.126 | 144.389 |

| Physical Properties                 | Nominal Value*          | Test Method |
|-------------------------------------|-------------------------|-------------|
| Density                             | 0.960 g/cm <sup>3</sup> | ASTM D1505  |
| Melt Index (MI) 190°C/2.16kg        | 0.07 g/10 min           | ASTM D1238  |
| High Load Melt Index (190°C/21.6kg) | 7-16 g/10 min           | ASTM D1238  |
| SCG Resistance (PENT)               | >500 hours              | ASTM F1473  |
| Tensile Stress @ Yield              | 3,500 psi               | ASTM D638   |
| Tensile Stress @ Break              | 5,000 psi               | ASTM D638   |

| Physical Properties          | Nominal Value*                  | Test Method |
|------------------------------|---------------------------------|-------------|
| Elongation @ Break           | >500 %                          | ASTM D638   |
| Flexural Modulus (2% secant) | 150,000 psi                     | ASTM D790   |
| Brittleness Temperature      | < -103°F                        | ASTM D746   |
| Hardness                     | 62 Shore D                      | ASTM D2240  |
| Vicat Softening Temperature  | 256°F                           | ASTM D1525  |
| Thermal Expansion            | 1.0 x 10 <sup>-4</sup> in/in/°F | ASTM D696   |

**Note:** These tables represent standard sizes. Other DRs and PCs available upon request.

- A. PR: Pressure Rating in pounds/sq. in. (psi) for ASTM F714 Water up to 80°F.
- B. ID: Inside Diameter may vary due to manufacturing tolerances.
- C. Wt / Ft: Weight per foot in pounds may vary due to manufacturing tolerances.

Revised June 2024