



PROFESSIONAL PLASTICS

Pipe Grade HDPE Sheet Material Data Sheet

| Property* | ASTM Test Method | Typical Values | |
|---|-------------------------------|-------------------------------|-------------------------------|
| | | English Units | Metric Units |
| Nominal Sheet Properties⁽¹⁾ | | | |
| Density | D1505 | 58.9 lbs/ft ³ | 0.955 g/cc |
| Melt Flow Rate (HLMI), Condition 190 °C / 21.6 kg | D1238 | --- | 0.11 g / 10 min |
| Polyethylene Classification | D4976 | Group 2, Class 3, Grade 5 | Group 2, Class 3, Grade 5 |
| Polyethylene Plastic Pipe Classification | D3350 | Meets Class 345464C & 345465C | Meets Class 345464C & 345465C |
| Polyethylene Plastic Pipe Classification | F412 & Plastic Pipe Institute | PE 3408 | PE 3408 |
| Potable Water Standards | NSF International | Meets Standards 14 & 61 | Meets Standards 14 & 61 |
| Tensile Strength @ Yield | D638 | 3,200 psi | 22 MPa |
| Ultimate Elongation | D638 | 800% | 800% |
| PENT Slow Crack Growth | F1473 | > 100 hours | > 100 hours |
| Flexural Modulus | D790 | 140,000 psi | 960 MPa |
| Brittleness Temperature | D746 | < -103 °F | < -75 °C |
| Nominal Pipe Properties⁽²⁾ | | | |
| Hydrostatic Design Basis, 73 °F (23 °C) | D2837 | 1600 psi | 11 MPa |
| Hydrostatic Design Basis, 140 °F (60 °C) | D2837 | 800 psi | 5.5 MPa |
| Minimum Strength Required | ISO 9080 | 1160 psi | 8 MPa |

⁽¹⁾The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

⁽²⁾The nominal pipe properties were determined on pipe extruded from the same resin as is used to make the sheet.

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