



AWSEBI (*ow-suh-bee*)

Means hauls water in the Potawatomi language.

APPLICATIONS

Awsebi Water Pipe is a high-performance bimodal, high-density polyethylene (HDPE) pipe designed for potable water, reclaimed water, and wastewater service.

Our water pipe's heat-fused joints provide a leak-free, NSF-certified, quality water system that is corrosion and seismic-resistant to ensure a lifetime of safe and clean water.

CONFORMANCE

- ASTM D3035 "Standard Specification for Polyethylene (PE) Plastics Pipe (DR_PR Based on Controlled outside diameter"
- ANSI/AWWA C901 "Polyethylene (PE) Pressure Pipe and Tubing, 3/4 In. (19mm) though 3 In. (76mm) for water service"
- Cell Classification PE445574C per ASTM D3350
- NSF/ANSI Standard 61 Certified for Potable Water Contact
- Plastics Pipe Institute (PPI) TR-4 Listing as PE4710 / PE100
- Hydrostatic Design Basis 1,600 psi @ 73°F (23°C) and 1,000 psi @ 140°F (60°C) per ASTM D2837
- 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.

Awsebi Water Pipe Technical Data

Physical Properties	Nominal Value*	Test Method
Density	0.960 g/cm ³	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 ⁻⁴ in/in/°F	ASTM D696

	IPS	PR ^A / PC ^B	335	250	200	160	125
Size	OD (in)	DR	7	9	11	13.5	17
3/4"	1.050	Min Wall (in)	0.150	0.117	0.095		
		ID ^C (in)	0.732	0.803	0.848		
		Lb / Ft ^D	0.185	0.150	0.126		
1"	1.315	Min Wall (in)	0.188	0.146	0.120		
		ID ^C (in)	0.917	1.005	1.062		
		Lb / Ft ^D	0.291	0.235	0.197		
1 1/4"	1.660	Min Wall (in)	0.237	0.184	0.151	0.123	
		ID ^C (in)	1.158	1.270	1.340	1.399	
		Lb / Ft ^D	0.463	0.374	0.314	0.261	
1 1/2"	1.900	Min Wall (in)	0.271	0.211	0.173	0.141	
		ID ^C (in)	1.325	1.453	1.533	1.601	
		Lb / Ft ^D	0.607	0.490	0.411	0.342	
2"	2.375	Min Wall (in)	0.339	0.264	0.216	0.176	0.140
		ID ^C (in)	1.656	1.815	1.917	2.002	2.079
		Lb / Ft ^D	0.948	0.767	0.643	0.532	0.431
3"	3.500	Min Wall (in)	0.500	0.389	0.318	0.259	0.206
		ID ^C (in)	2.440	2.675	2.826	2.951	3.063
		Lb / Ft ^D	2.058	1.663	1.394	1.159	0.936

AWWA C901 pipe is available in DR 9 ONLY

Note: This table represents standard sizes. Other DRs and PCs available upon request.

- PR: Pressure Rating in pounds/sq. in. (psi) for ASTM D3035 Water up to 80°F.
- PC: Pressure Class in pounds/sq. in. (psi) for ANSI / AWWA C901 Water up to 80°F.
- ID: Inside Diameter may vary due to manufacturing tolerances.
- Wt / Ft: Weight per foot in pounds may vary due to manufacturing tolerances.

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