



# CenFuse

**Flexible Polyethylene Pipe**

HDPE 4710 – ASTM D3035 & ASTM F714

Certified and Listed NSF



Effective January, 2024  
Supersedes January 2019

ASTM D3035			DR 7	DR9	DR 11	DR 13.5	DR 15.5	DR 17
Dimensions	OD	DR	335 PSI	250 PSI	200 PSI	160 PSI	138 PSI	125 PSI
3/4"	1.050	ID (in)	0.750	0.816	0.860	0.894	0.914	0.926
		Min Wall (in)	0.150	0.117	0.095	0.078	0.068	0.062
		Wt/Ft (lbs)	0.181	0.146	0.122	0.102	0.098	0.082
1"	1.315	ID (in)	0.939	1.023	1.075	1.121	1.145	1.161
		Min Wall (in)	0.188	0.146	0.120	0.097	0.085	0.077
		Wt/Ft (lbs)	0.285	0.229	0.191	0.159	0.151	0.128
1¼"	1.660	ID (in)	1.186	1.292	1.358	1.414	1.446	1.464
		Min Wall (in)	0.237	0.184	0.151	0.123	0.107	0.098
		Wt/Ft (lbs)	0.453	0.365	0.306	0.254	0.223	0.206
1½"	1.900	ID (in)	1.358	1.478	1.554	1.618	1.654	1.676
		Min Wall (in)	0.271	0.211	0.173	0.141	0.123	0.112
		Wt/Ft (lbs)	0.593	0.479	0.402	0.333	0.294	0.269
2"	2.375	ID (in)	1.697	1.847	1.943	2.023	2.069	2.095
		Min Wall (in)	0.339	0.264	0.216	0.176	0.153	0.140
		Wt/Ft (lbs)	0.928	0.749	0.627	0.520	0.457	0.421
3"	3.500	ID (in)	2.500	2.722	2.864	2.982	3.048	3.088
		Min Wall (in)	0.500	0.389	0.318	0.259	0.226	0.206
		Wt/Ft (lbs)	2.016	1.626	1.360	1.128	0.994	0.912

CENTENNIAL CenFuse IPS SDR 9 250PSI @ 73°F ASTM D3035 NSF-pw NSF geothermal AWWA C901 NSF358 PE4710 CC3

ASTM F714			DR 7	DR9	DR 11	DR 13.5	DR 15.5	DR 17
Dimensions	OD	DR	335 PSI	250 PSI	200 PSI	160 PSI	138 PSI	125 PSI
4"	4.500	ID (in)	3.214	3.500	3.682	3.834	3.920	3.970
		Min Wall (in)	0.643	0.500	0.409	0.333	0.290	0.265
		Wt/Ft (lbs)	3.402	2.688	2.249	1.865	1.641	1.506
6"	6.625	ID (in)	—	5.153	5.421	5.643	5.771	5.845
		Min Wall (in)	—	0.736	0.602	0.491	0.427	0.390
		Wt/Ft (lbs)	—	5.961	4.873	4.048	3.557	3.268
8"	8.625	ID (in)	—	—	7.057	7.347	7.513	7.611
		Min Wall (in)	—	—	0.784	0.639	0.556	0.507
		Wt/Ft (lbs)	—	—	8.263	7.035	6.043	5.535

CENTENNIAL CenFuse IPS SDR 9 250PSI @ 73°F ASTM F714 NSF-pw NSF geothermal AWWA C906 NSF358 PE4710 CC3

Note: For stocking coil lengths, please see [centennialplastics.com/resources](http://centennialplastics.com/resources)

DR 9 = Water Service Pipe AWWA C901 & C906 Black with Blue stripe CC3

ISO 9001:2015  
Certified



Scan here to learn more about our Geothermal Pipe

## ESSENTIAL LINKS *(click link for website or to download file)*

- » PE Handbook
- » Plastic Pipe Design Calculator
- » Temperature Effects on Centennial Poly (HDPE App)
- » CenFuse Stocking Coil Lengths
- » Chemical Resistance of Plastic Piping Materials
- » Weatherability of Thermoplastic Piping Systems

Dimension Ration, DR	Min Cold Bend Radius
7, 9	20 x Pipe OD
11, 13.5	25 x Pipe OD
15.5, 17	27 x Pipe OD

## CERTIFICATIONS & REFERENCES

- » **Centennial CenFuse Polyethylene Pipe** is compatible for connections with butt fusion, socket fusion, electrofusion, compression fittings, and victaulic grooved fittings. Check with fitting manufacturers for proper installation.
- » **CenFuse DR 9 and 7 meet AWWA C901** requirements in 3/4"- 3" and **AWWA C906** requirements in 4"- 6". CenFuse is certified and tested by NSF/ANSI standard 61 for potable water contact and NSF 14 for product performance compliance.
- » **NSF/ANSI/CAN 61** — Drinking Water System Components-Health Effects establishes the benchmark criteria for evaluating health effects of many drinking water system components, including plastic piping. Includes annual monitoring testing to verify continuous compliance, regular unannounced inspections of the manufacturing location, and ensures pipe is suitable for drinking water.
- » **NSF/ANSI 14** — Plastics Piping System Components and Related Materials establishes the physical, performance and health effects requirements for plastics piping system components and related materials. Includes annual monitoring testing to verify continuous compliance, regular unannounced inspections of the manufacturing location, and testing to product standards such as ASTM for dimensions, burst, sustained pressure, crush, extrusion quality, etc. Along with verification of the pipe material's long-term strength rating and material physical properties.
- » **ASTM D3035** — This specification covers polyethylene (PE) pipe made in thermoplastic pipe dimension ratios based on outside diameter IPS 3/4 to 3, for both non-pressure and pressure rated water. Included are requirements for polyethylene compounds and PE plastic pipe, a system of nomenclature for PE plastic pipe, and requirements and test methods for materials, workmanship, dimensions, sustained pressure, and burst pressure.
- » **ASTM F714** — This specification covers polyethylene (PE) pipe 4" and larger.
- » **PE4710** — CenFuse is manufactured from virgin high density polyethylene resin with the cell classification of 445576C per ASTM D3350-22. The material contains minimum 2% carbon black as a UV inhibitor to accommodate outside storage for at least 18 months
- » **ASTM D3350** — Material shall be high-density polyethylene conforming to the minimum requirements of cell classification 445576C. DR 9 or 250 psi related pipe will be listed CC3.
- » **ASTM F2620** — Heat fusion joining an PPI TR-33/R-41.
- » **AWWA C901** — This standard describes polyethylene (PE) pressure pipe and tubing made from material having standard PE code designation PE4710 and intended for use in potable water, reclaimed water, and wastewater service. Conforms to the OD dimensions of copper tube size (CTS) and iron pipe size (IPS). Pipe sizes 3" and smaller.
- » **AWWA C906** — This standard describes polyethylene (PE) pressure pipe and fittings made from materials conforming to standard PE materials designation codes PE 2606, PE 2706, PE 2708, PE 3608, PE 3708, PE 3710, PE 4608, PE 4708, and PE 4710. HDPE 4" and larger
- » **CenFuse** is certified to NSF/ANSI 372 and conforms with the "lead free" plumbing as defined by California, Vermont, Maryland, and Louisiana state laws and the U.S. Safe Drinking Water Act.
- » **Build America, Buy America (BABA Act)** — We proudly hold a BABA Act certification.
- » **Centennial Plastics follows Proposition 65 – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**  
Our products in their finished form do not require a California Proposition 65 warning label.



[centennialplastics.com](http://centennialplastics.com)



09/24

NEBRASKA  
1830 Centennial Ave.  
Hastings, NE 68901

IDAHO  
5150 Treasure Valley Way  
Nampa, ID 83687

[info@centennialplastics.com](mailto:info@centennialplastics.com)  
402-462-2227