

Introducing the 1 1/2" EarthLoop™



EarthLoops™ are manufactured at the factory by fusing the Bullet™ U-Bend fitting and CenFuse pipe with state of the art, computerized fusion equipment.

Centennial Plastics uses the same virgin 4710, NSF certified material in its CenFuse pipe and Bullet fitting. This guarantees exact material compatibility at the fusion joint. In addition to the best material and computerized fusion, Centennial pressurizes each loop to ensure the closed loop arrives at the jobsite in the same condition as it left our factory.

Centennial Plastics' manufacturing, testing and delivery process are geared toward providing the best loops on the market. Our **50 year limited warranty** on EarthLoops™ backs that up!

Made to fit 1 1/2" diameter pipe. The Bullet™ U-Bend and CenFuse pipe are NSF 14, 61 and 358-1 certified.

Dependability and ease of installation are assured in several ways:

- » Bullet™ U-Bend fittings are available in both SDR 9 and SDR 11 specifications to cover 200/250 PSI installations.
- » Bullet™ U-Bend fittings are designed for easy installation, and are securely butt-fused to CenFuse pipe. Look for the unique bullet shape.
- » Footage markings validate the bore hole depth.
- » All Centennial Plastics' EarthLoops™ are pressurized.





Specifications for CenFuse Geothermal Pipe

CenFuse Geothermal HDPE 4710 Pipe

ASTM D3035		1½"
200 PSI	O.D.	1.900"
SDR 11	I.D.	1.554"
	Wall	.173"
	Wt/ft	.402#

ASTM D3035		1½"
250 PSI	O.D.	1.900"
SDR 9	I.D.	1.478"
	Wall	.211"
	Wt/ft	.479#

CenFuse HDPE Pipe and Bullet™ U-Bend Fitting Raw Material

CenFuse Geothermal HDPE 4710 Pipe

Property	ASTM Test Method	English Units*	SI Units*
Density (Natural)	D 4883	—	0.9485 g/cc
Density (Black)	—	—	0.959 g/cc
Melt Index ¹	D 1238	—	8.5 g/10 min
Tensile Strength @Yield (2 in/min)	D 638	3625 psi	25.0 MPa
Tensile Strength @Break (2in/min)	D 638	5500 psi	38.0 MPa
Enlongation @ Break (2 in/min)	D 638	>600%	>600%
Flexural Modulus ²	D 790	150,000 psi	1,035 MPa
Notched Izod Impact Strength	D 256	9 ft-lbf/in	0.49 kJ/m
Hardness (Shore D)	D 2240	66	66
Vicat Softening Point	D 1525	259° F	126° C
Brittleness Temperature	D 746	<-180° F	<-118° C
Thermal Stability	D2513/D3350	428°F min	220°C min
Hydrostatic Design Basis @ 23° C	D 2837	1600 psi	11.0 MPa
Hydrostatic Design Basis @ 60° C	D 2837	1000 psi	6.9 MPa
Minumum Required Strength	ISO 9080	—	10.0 MPa
Environmental Stress Crack Resistance ³	D 1693	>5000 hrs.	>5000 hrs.
Pipe Ring ESCR ⁴	—	—	—
Notch Tensile (PENT)	F 1473	>10,000 hrs.	>10,000 hrs.
Carbon Black Concentration	D 1603	2.3%	2.3%
Cell Classification	D 3350	445576C	445576C

¹ 190°C/21,600 g ² 2% Secant-Method 1 ³ Condition C ⁴ Two inch, SIDR 19 * Typical Values
 Contact your distributor or visit our website at www.centennialplastics.com.

Centennial Plastics is an ISO 9001 certified company.



CenFuse is NSF/ANSI 358-1 certified.



GEOEXCHANGE



Centennial

PLASTICS, INC.

Quality and Service That Soars

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