NEW FROM CENTENNIAL PLASTICS:



THE MAL EXCHANCE SYSTEM

WITH EXCLUSIVE TEST-CAP TECHNOLOGY!



For further details, see our installation guide at centennialplastics.com or as provided by your local distributor.

Centennial

Quality and Service That Soars

<mark>Veets Buy America</mark> Act requi<mark>rements.</mark>

PLASTICS, INC.

Installing Geothermal HeatPump Systems is Now Faster and More Secure

EarthLoops[™] Secure System starts with two industry favorites: Centennial Plastics' NSFcertified Cenfuse Geothermal HDPE pipe, and the Bullet[™] U-Bend fitting.

Now, we offer an **exclusive test-cap system with one-step air testing** to make installation faster and more secure – **all at no added cost!**

Our new test-cap system sets the gold standard of factory-sealing!

- Built-in pressure valve lets you check loop pressure with a tire gauge and **add air during field pressure tests.**
- By cutting installation time, the new Test-Cap System helps **reduce labor costs!**
- EarthLoops[™] are factory-pressurized and sealed with our new Test-Cap System to assure the **loops you install are free from leaks and contaminants**.
- Using Exclusive Patent Pending Technology.

NEW EarthLoop™ Test-Cap with Field Testing Capabilities

1830 Centennial Ave. • Hastings, NE 68901 • Ph: 402-462-2227• Fax: 402-462-5529 • Toll Free: 866-851-2227 www.centennialplastics.com

Specifications for Geothermal Exchange Pipe



3/4"	1"	1-1/4"
310' (155' x 155') 350' (175' x 175') 410' (205' x 205') 460' (230' x 230') 510' (255' x 255')	410' (205' x 205') 510' (255' x 255') 610' (305' x 305') 810' (405' x 405')	610' (305' x 305') 810' (405' x 405') 1010' (505' x 505')

Cenfuse Geothermal pipe and EarthLoops™ are available in other SDR's and special lengths. Contact your distributor or visit our website at www.centennialplastics.com.

CenFuse SDR 11 meets the applicable standards for AWWA C901 & C906.

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

PROPERTY	ASTM Test	STM Test Typical Values		
I KOI EKI I		7 1		
	Method	English Units	SI Units	
Density (Natural)	D 4883	-	0.944 g/cc	
Density (Black)		-	0.955 g/cc	
Melt Index ¹	D 1238	-	12.5 g/10 min	
Tensile Strength				
@ Yield (2 in/min)	D 638	3300 psi	22.8 MPa	
@ Break (2 in/min)	D 638	4500 psi	31.0 MPa	
Elongation @ Break (2 in/min)	D 638	>600%	>600%	
Flexural Modulus ²	D 790	120,000 psi	827 MPa	
Notched Izod Impact Strength	D 256	6 ft-lbf/in	0.32 kJ/m	
Hardness (Shore D)	D 2240	68	68	
Vicat Softening Point	D 1525	259°F	126°C	
Brittleness Temperature	D 746	<-180°F	<-118°C	
Hydrostatic Design Basis				
@ 23° C	D 2837	1600 psi	11.0 MPa	
@ 60° C	D 2837	800 psi	5.5 MPa	
Environmental Stress				
Crack Resistance ³	D 1693	>2000 hrs.	>2000 hrs.	
Environmental Stress				
Crack Resistance⁴	D 1693	>5000 hrs.	>5000 hrs.	
Pipe Ring ESCR⁵	F 1248	>5000 hrs.	>5000 hrs.	
Notch Tensile (PENT)	F 1473	>100 hrs.	>100 hrs.	
Carbon Black Concentration	D 1603	2.3%	2.3%	
Cell Classification	D 3350	345464C	345464C	

¹190°C/21600 g ²2% Secant-Method 1 ³Condition B, 10% ⁴Condition C ⁵Two inch, SIDR 19







Meets Buy America Act requirements.



ASTM	D3035	3/4"	1"	1-1/4"	1-1/2"	2"
160 PSI SDR 11	O.D. I.D. Wall Wt/ft	1.050" .860" .095" .122#	1.315" 1.077" .120" .191#	1.660" 1.358" .151" .306#	1.900" 1.554" .173" .402#	2.375" 1.943" .216" .627#
Coil Le	engths in ft	100, 300, 400, 500, 600, 700, 800, 1000	100, 300, 500	100, 150, 200, 300, 500	100, 200, 300, 500	100, 200, 300, 500
Straig	ht Lengths	_	20'	20'	20'	20'
ASTM	D3035	3"	4"	6"		
	O.D. I.D. Wall Wt/ft	3.500" 2.864" .318" 1.360#	4.500" 3.682" .409" 2.249#	6.625" 5.421" .602" 4.873#		
Coil Le	engths in ft	500	500			
Straig	ht Lengths	20', 40'	20', 40'	20'		









New EarthLoop™ Test-Cap with Field Testing Capabilities

- Air pressurized to approx. 15 lbs
- Quick pull-off valve stem cap
- 1,000 hours of lab testing at 160PSI

PLASTICS, INC.

CenFuse is NSF-14/ Geothermal certified.

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