WL PLASTICS
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Camcore™ DIPS Specification

Sewer & Reclaimed Water

The ideal piping solution

Camcore™ DIPS Specification

High density polyethylene for sewer and waste water pipe collection

A. Camcore™

Produced from High Density Polyethylene (HDPE) PE 4710 materials, Camcore™ pipe is designed for sewer and waste water pipe collection services. Camcore™ is currenty manufactured in nominal diameters 4 inch through 16 inch in Ductile Iron Pipe Sizes (DIPS). Camcore™ conforms to AWWA C906 and ASTM D3035 standards. It is pressure rated in accordance to the Plastics Pipe Institute (PPI) TR 3 policies and procedures.

Camcore™ pipe enhances video inspection and lateral tap locating by utilizing a coextruded light color interior surface. This polyethylene pipe contains a light grey interior surface which is considered the standard for sewer and water collection applications in both rural and municipal water systems. Also external striping colors are available to identify specific usages such as non-potable water, grey water, reclaimed water, waste water, force main and gravity municipal sewage, etc. Camcore™ HDPE is chemical and corrosion resistant pipe, especially against hydrogen sulfide attack, oxidation and tuberculation. In comparison to solid wall grey HDPE pipe, Camcore™ has indefinite outdoor storage life due to carbon black's resistance to UV degradation, whereas competitive grey products do not. It also has a higher density allowing for greater abrasion resistance and pull strength. Camcore™ is an excellent choice for sewer and waste water infrastructure pipe applications.

Working pressure classes for Camcore™ DIPS

DIPS size	Average OD, in	Pressure Class	PC250	PC200	PC150	PC125	PC100
		SDR	9	11	13.5	17	21
4	4.80	Min wall, in	0.533	0.436	0.356	0.282	0.229
		Avg ID, in	3.669	3.875	4.046	4.201	4.315
		Weight, lb/ft	3.093	2.587	2.151	1.732	1.423
6	6.90	Min wall, in	0.767	0.627	0.511	0.406	0.329
		Avg ID, in	5.275	5.570	5.816	6.040	6.203
		Weight, lb/ft	6.396	5.348	4.439	3.585	2.940
8	9.05	Min wall, in	1.006	0.823	0.670	0.532	0.431
		Avg ID, in	6.918	7.306	7.629	7.921	8.136
		Weight, lb/ft	11.004	9.207	7.635	6.162	5.051
10	11.10	Min wall, in	1.233	1.009	0.822	0.653	0.529
		Avg ID, in	8.485	8.961	9.357	9.716	9.979
		Weight, lb/ft	16.543	13.845	11.488	9.276	7.604
12	13.20	Min wall, in	1.467	1.200	0.978	0.776	0.629
		Avg ID, in	10.091	10.656	11.127	11.554	11.897
		Weight, lb/ft	23.405	19.581	16.254	13.110	10.752
14	15.30	Min wall, in	1.700	1.391	1.133	0.900	0.729
		Avg ID, in	11.696	12.351	12.897	13.392	13.755
		Weight, lb/ft	31.438	26.308	21.826	17.623	14.444
16	17.40	Min wall, in	1.933	1.582	1.289	1.024	0.829
		Avg ID, in	13.301	14.047	14.668	15.230	15.643
		Weight, lb/ft	40.654	34.027	28.239	22.802	18.680

Note: For evaluated temperatures greater than 73° F refer to WL118

B. Pipe material

Camcore™ pipe is produced from the highest rated HDPE pipe materials. This is a long lasting, fusible pipe. Camcore™ HDPE materials are listed in Plastics Pipe Institutes (PPI) Technical Report 4 (TR-4) (ref: plasticpipe.org/Publications/technical-reports.html)

Camcore™ is classified under ASTM D3350 as a Type III, Class PE445574C/E, Grade PE47 Camcore™ is also classified under ASTM D1248 as a Type III, Class D, Category 5, Grade E10 or E11.

C. Camcore™ advantages

- Leak-free piping
- Video surveillance enhancement
- Durable
- Fatigue free
- Chemical resistance
- UV protected
- Lateral tap locating
- Impact resistant
- Does not support biological growth
- Environmentally friendly
- Flexible
- Excellent for trenchless piping system installations
- Fusion condition compatibility
- Surge resistant
- Fusible pipe

Camcore™ ASTM D3350 cell classification of PE445574C/E

	Property	Standard	Typical value
Class	Cell classification	ASTM D3350	445574C/E (black/gray)
4	Density	ASTM D1505	0.960 g/cc (black/gray)
4	Melt index	ASTM D1238	0.1 g/10 m
5	Flexural modulus	ASTM D790	>110,000 <160,000 psi
5	Tensile strength	ASTM D638	>3500 psi
7	SCG (PENT)	ASTM F1473	>500 hours
4	HDB @73F	ASTM D2837	1600 psi
C/E	Color; UV stabilizer	ASTM D3350	Carbon black/color w/UV stabilizer

Note: PPI TR-4 Hydrostatic Design Stress (HDS), Strength Design Basis (SDB), Pressure Design Basis (PDB) and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe

D. Pipe fusion

It is recommended that HDPE pipe fusion in accordance to ASTM F2620, PPI TR-33, and pipe and fittings manufacturing recommendations (Ref: WL101). Mechanical joining procedures supplied by fittings manufacture(s). Camcore™ is manufactured to ASTM D3035 which contains tighter OD tolerances than ASTM F714 for improved electro-fusion compatibilities. It also meets and exceeds ASTM F714 requirements.

E. Pipe installation of HDPE plastic pipe

Installations follow manufacturing recommendations and applicable to ASTM D2774, D2657, F2620, D2683, D3261, F1055, AWWA C901 or C906, AWWA M55, and/or WL101 and WL113.

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Manufacturing locations

Bowie, TX
Casper, WY
Cedar City, UT
Elizabethtown, KY
Lubbock, TX (HDPE)
Lubbock, TX (MDPE)
Rapid City, SD
Snyder, TX
Statesboro, GA
Titusville, PA (HDPE/MDPE)

Corporate office

3575 Lone Star Circle, Suite 300,
Fort Worth, TX, 76177

Contact

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