

For more information and technical assistance contact:

Performance Pipe, a division of
Chevron Phillips Chemical Company LP
P.O. Box 269006
Plano, TX 75026-9006
800.527.0662



DriscoPlex® 5100 Ultra-Line® PE 4710 (PE 3408) Piping Products Water Service Pipe & Tubing

Suggested Industries and Applications

PERFORMANCE PIPE's DriscoPlex® 5100 Ultra-Line® PE 4710 (formerly PE 3408) piping products are recommended for use in municipal water service pipe and tubing. **DriscoPlex® 5100 piping products are not recommended for use inside of residential or commercial buildings.**

Butt Fusion

- Refer to Bulletin PP 750, Heat Fusion Joining Procedures

Available Sizes and Pressure Ratings per AWWA C901-02

Municipal Water Service Pipe & Tubing
Dimensions and Pressures: ASTM D-2737 (CTS)
Copper Tube Size - OD ASTM D-2737 - SDR 9 (200 psi)
Dimension (Inches)

Nom. Size (Inches)	Approximate O.D	Nominal I.D.	Min. Wall Thickness	Working Pressure Rating at 73	Approximate Weight lbs./100'
3/4"	0.875	0.681	0.097	200 psi	10.39
1"	1.125	0.875	0.125	200 psi	17.21
1-1/4"	1.375	1.069	0.153	200 psi	25.74
1-1/2"	1.625	1.263	0.181	200 psi	35.99
2"	2.125	1.653	0.236	200 psi	61.39

Municipal Water Service Pipe & Tubing
Dimension and Pressures: ASTM D-2239 (SIDR-PR)
Based on Controlled Inside Diameter - SIDR - 7 (200 psi)
Dimension (Inches)

Nom. Size (Inches)	Approximate O.D	Nominal I.D.	Min. Wall Thickness	Working Pressure Rating at 73	Approximate Weight lbs./100'
3/4"	1.060	0.824	0.118	200 psi	15.54
1"	1.349	1.049	0.150	200 psi	25.14
1-1/4"	1.774	1.380	0.197	200 psi	43.42
1-1/2"	2.070	1.610	0.230	200 psi	59.15
2"	2.657	2.067	0.295	200 psi	97.40

Pipe weights calculated in accordance with PPI-TR-7, using Density at 23°C of 0.961

For more information and technical assistance contact:

Performance Pipe, a division of
Chevron Phillips Chemical Company LP
P.O. Box 269006
Plano, TX 75026-9006
800.527.0662



®

Bulletin: PP 111

Revision Date May, 2008

Another quality product from



Before using the piping product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the piping product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the piping product is suited and the information is applicable to the user's specific application. This data sheet provides typical physical property information for polyethylene resins used to manufacture the piping product. It is intended for comparing polyethylene piping resins. It is not a product specification, and it does not establish minimum or maximum values or manufacturing tolerances for resins or for the piping product. These typical physical property values were determined using compression-molded plaques prepared from resin. Values obtained from tests of specimens taken from the piping product can vary from these typical values. Performance Pipe does not make, and expressly disclaims, all warranties, of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, allegedly arising from any usage of trade or from any course of dealing in connection with the use of information contained herein or the piping product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with th

DriscoPlex® 5100 Ultra-Line PE 4710 (PE 3408) Piping Products Water Service Pipe & Tubing

The material designation code and cell class for DriscoPlex[®] 5100 pipe material is PE 4710 and 445574C respectively per ASTM D3350-06 and PE 3408 and 345464C per ASTM D3350-02a

Property	Unit	Test Procedure	Typical Value
Density []	g/cm ³	ASTM D-1505	0.961 (black)
Melt Index []	g/10 minutes	ASTM D-1238	0.1
Flexural Modulus []	psi	ASTM D-790	>140,000
Tensile Strength []	psi	ASTM D-638	3700
SCG (PENT) []	hours	ASTM F-1473	>1000
HDB at 73.4°F (23°C) []	psi	ASTM D-2837	1600
Color; UV Stabilizer [C]	---	ASTM D-3350	Black with minimum 2% carbon black ¹
HDB at 140°F (60°C)	psi	ASTM D-2837	1000
Linear Thermal Expansion	inch/inch/°F	ASTM D-696	9 X 10 ⁻⁵
Elastic Modulus	psi	ASTM D-638	200,000
Brittleness Temperature	°F (°C)	ASTM D-746	< -130 (< -118)
Hardness	Shore D	ASTM D-2240	65

(1) See CFR 49, Part 192, §192.321(g)(1).

Specification Data

- The resin, pipe and fittings comply with these accepted industry standards:
- AWWA C-901
- NSF 14 & 61
- ASTM D-2239 (Pipe ¾" -2", ID Controlled IPS)
- ASTM D-2737 (Pipe ¾" -2", OD controlled CTS)
- PPI – PE3408 Designation