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

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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	9×10^{-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