

Molded Fittings Submittal

This submittal outlines the standards and cell classification for Molded Fittings produced by Performance Pipe.

Performance Pipe Molded Fittings are produced in six different series for application in various industries.

- ◆ **DriscoPlex® 8100 series fitting** (IPS or CTS) is an all purpose fitting that meets several application standards. It is produced out of High Performance High Density PE4710. This material code designation meets and exceeds PE3408, PE3608, PE4710 and PE100 submittal requests.
- ◆ All **DriscoPlex® medium and high density** fittings are produced with pre-compounded resins and contain no rework.
- ◆ **DriscoPlex® 6500 series fittings** are produced of High Performance Medium Density resin. It meets or exceeds PE2406 and 2708 submittal requests.
- ◆ **DriscoPlex® 4000 series Ductile Iron Pipe Size (DIPS) fittings** are produced to several manufacturing standards. The fittings are manufactured of High Performance High Density PE4710 resin.
- ◆ **PlatinumStripe™ 1800 Series fittings** are manufactured with PE-RT High Performance, High Density PE4710 Resin.
- ◆ **Factory Mutual Approved (FMA) DriscoPlex® 1500 series fittings** are manufactured with High Performance High Density PE4710 resin.
- ◆ **DriscoPlex® 5300 series fittings** are made for the Geothermal Industry. The fittings are manufactured from High Performance High Density resins that meets or exceeds PE3408, PE3608 and PE4710 submittal requests.

Table 1

Series	Application	Manufacturing Standard	ASTM Material Designation Code	Cell Classification (ASTM D3350)	Sizes of Manufacture
8100	Municipal, Industrial, & Energy, Gas, Water, Sewer, Oil Field, Landfill, Various	ASTM D-2513 AWWA C906 ASTM D-3261 ASTM F-2880 (Flange Adapter)	PE 4710/ PE 100	445574C	½" - 1¼" CTS ½" - 18" IPS
6500	Gas Distribution	ASTM D-2513 ASTM D-3261 ASTM D-2683 CAN/CSA-B137.4 U.P. Code	PE 2708/ PE 80	234373E	½" - 1¼" CTS ½" - 8" IPS
4000 (DIPS)	Municipal & Industrial, Potable Water, Various	AWWA C906 ASTM D-3261	PE 4710	445574C	4" - 8" DIPS
1800	High Temperature Water/Wastewater, Mining, Power Plants, Pulp/Paper, Industrial, Oil & Gas Gathering	ASTM D-3261 ASTM F-2206 (fabricated) ASTM F-2880 (Flange Adapter)	PE 4710	445574C	2" - 36" IPS
1500 (IPS)	Factory Mutual Fire Main (FMA)	FM 1613 AWWA 901 & C906 ASTM D-3261 ASTM F-2880 (Flange Adapter)	PE 4710	445574C	2" - 18" IPS
5300	Geothermal	ASTM D-2683 ASTM D-3261	PE 4710	445574C	¾" - 8" IPS



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Performance Pipe Mechanical Joint Adapters are manufactured through 12" (IPS & DIPS) sizes.

All other High Density fittings are manufactured of PE4710 High Performance High Density resins.

The applications listed in Table 1 are limited by the table space requirements. Please see the Performance Pipe Municipal, Industrial & Energy Submittal Sheet (PP515) for applications and industries.

Performance Pipe PE4710 fittings meets and exceeds PE3408, PE3608, PE4710, and PE100 submittal requirements.

Table 2

Standard	Application
AWWA C-906 AWWA C-901	Covers manufacturing of pressure pipe and fittings primarily intended for use in the transportation of water and other liquids.
ASTM D-2513	Covers manufacturing requirements and test methods for fittings intended for use in fuel gas mains and services.
ASTM D-3261	This Specification covers molded and machined fittings for use with polyethylene pipe for various applications.
ASTM D-2683	Covers socket-type fittings for outside diameter controlled polyethylene fittings.
ASTM F-2206	Covers fabricated fittings of butt-fused polyethylene (PE) for various applications.
ASTM F-2880	This Specification covers molded and machined flange adapters for use with polyethylene pipe for various applications.
CAN/CSA-B137.4	Covers selected Canadian Standards Association standards for outside diameter controlled gas PE pipe and fittings.
NSF-61	Selected Performance Pipe high density fittings are produced from NSF 61 listed resin compounds.
U.P. Code	Selected products are certified to the Uniform Plumbing Code™.

Performance Pipe's fittings are connected using butt fusion, sidewall fusion, socket fusion, and other mechanical methods, such as flanges, mechanical joint adapters and compression couplings.

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Table 3

Pressure Ratings of Molded PE4710 Fittings	
Dimension Ratio	Pressure Rating*, psi
7	333
9	250
11	200
13.5	160
15.5	137
17	125
21	100
26	80
32.5	63
41	50

*Pressure ratings are based on an operating temperature of up to 80°F and need to be reduced for higher temperatures and certain applications. Refer to PlexCalc on www.performancepipe.com for additional information.

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