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in order to view comprehensive reports relating to specific areas of design, operation, and manufacture intended to assist engineers, code officials, specifying groups, and users with implementation of plastic pipe. Click on the "Publications" to find the following related to Fuel Gas:

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New PE Pipe Material Designation Codes



**Polyethylene Pipe and Fittings are now
being used in gas distribution in large
diameters of 8" and greater.**



New PE Pipe Material Designation Codes

Pipe Material Designation Code		First Digit (Density)	Second Digit (Min. PENT, hrs)	Third & Fourth Digits (Max. HDS, psi)	Pressure Ratings, psig @73°F, SDR 11 Pipe Water / Gas
Historical	Current ^a				
PE 2406	PE 2406	>0.925 - 0.940	10	625	125 / 80
	PE 2606	"	100	625	125 / 80
	PE 2708	"	500	800 ^b	160 ^c / 100 ^d
PE 3408	PE 3408	>0.940 - 0.947 ^e	10	800	160 / 102
	PE 3608	"	100	800	160 / 102
	PE 3708	"	500	800	160 / 102
	PE 3710	"	500	1000 ^b	200 ^c / 128 ^d
	PE 4608	>0.947 - 0.955 ^e	100	800	160 / 102
	PE 4708	"	500	800	160 / 102
	PE 4710	"	500	1000 ^b	200 ^c / 128 ^d

PE 4710 Example:

4 -
7 -
10 -

first digit, density = >0.947 - 0.955;
second digit, SCG, PENT = >500 hr;
third and fourth digits, maximum HDS/100,
(1600 psi x 0.63 DF) / 100 = 10

^a Current PE pipe material designation codes based on new design factor, DF, for high-performance PE materials. (The 0.63 DF is approved for the high-performance PE materials in water piping applications)
^b Using 0.63 DF for high-performance PE materials, the HDS is 1250 x 0.63 = 800 psi for a 1250 psi HDB and 1600 x 0.63 = 1000 psi for a 1600 psi HDB.
Using 0.50 DF for standard-performance materials, the HDS is 1250 x 0.50 = 625 psi for a 1250 psi HDB and 1600 x 0.50 = 800 psi for a 1600 psi HDB.
High-performance PE materials are defined by PPI TR-3 as a material having a 50 year substantiation according to Part F.5, a minimum PENT value of 500 hours, and an LCL/LTHS ratio of at least 90% as per ASTM D 2837.
^c Using the 0.63 DF for high-performance PE materials in PE water pipes.
^d Assuming 0.40 DF is adopted into US CFR Title 49, Part 192 for these high-performance PE materials in PE gas pipes. (Canada has adopted the 0.40 DF for all PE materials.)
^e Revisions in ASTM D 3350-02a resulted in the former cell class 3 density being split into two cell classifications, 3 and 4 as shown in the table.