

Blue Diamond Industries

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PE 3408 Pressure Pipe

high density polyethylene for industrial pressure applications

Blue Diamond PE 3408 Meets the following specifications:

ASTM F 2160: Standard Specification for solid wall HDPE pipe based on controlled outside diameter

ASTM F 714: Standard Specification for solid wall HDPE pipe based on controlled outside diameter (PE 3408 Certified Resin)

ASTM D 3350: Standard Specification for solid wall HDPE pipe and fittings materials (PE 3408 Certified Resin)

TYPICAL MATERIAL PHYSICAL PROPERTIES PE3408		
Property	Test Procedures	Units*
Density (3)	ASTM D1505	0.941 - 0.955 gm/cc
Melt Index (3)	ASTM D1238	<.40 to 0.15 gm/10 min
Flexural Modulus(4)	ASTM D790	110,000 -160,000 psi
Tensile Strength (Yield)(4)	ASTM D638	3500 - 4000 psi
Environmental Stress Crack Resistance (ESCR)(2)	ASTM D1473	24 hrs
HDB @ 73.4oF (4)	ASTM D2837	1600 psi
UV Stabilizer (C or E)	ASTM D1603	>2%
Ultimate Elongation	ASTM D638	>400%

* Consult ASTM Standards for acceptable tolerances.

Nominal Duct Size	Nominal OD	SDR 9 - 200 psi		SDR 11 - 160 psi		SDR 13.5 - 128 psi	
		Min Wall	Weight lbs/ft	Min Wall	Weight lbs/ft	Min Wall	Weight lbs/ft
3/4"	1.050	0.117	0.152	0.095	0.130	0.078	0.110
1"	1.315	0.146	0.235	0.120	0.200	0.097	0.169
1 1/4"	1.660	0.184	0.372	0.151	0.314	0.123	0.264
1 1/2"	1.900	0.211	0.488	0.173	0.409	0.141	0.343
2"	2.375	0.264	0.762	0.216	0.639	0.176	0.531
3"	3.500	0.389	1.655	0.318	1.387	0.259	1.153
4"	4.500	0.500	2.737	0.409	2.293	0.333	1.906
6"	6.625	0.824	5.931	0.602	4.971	0.491	4.130