

Yellow Gas Pipe PE 2406/2708

Polyethylene Pipe & Tubing for Natural Gas & LPG Nominal Dimensions & Weights

IPS Standard Sizes

Size	O.D.	SDR	Min. Wall	Weight Per 100'	Part Number
1/2"	0.840"	9.33	.090"	9.2 lbs.	PGA 050 41 01 00 26
3/4"	1.050"	11	.095"	12.3 lbs.	PGA 075 41 01 00 20
1"	1.315"	11	.120"	19.1 lbs.	PGA 100 41 01 00 20
1-1/4"	1.660"	11	.151"	27.9 lbs.	PGA 125 41 01 00 20
1-1/4"	1.660"	10	.166"	33.0 lbs.	PGA 125 41 01 00 27
1-1/2"	1.900"	11	.173"	39.8 lbs.	PGA 150 41 01 00 20
2"	2.375"	11	.216"	62.0 lbs.	PGA 200 41 01 00 20
3"	3.500"	11	.218"	135.2 lbs.	PGA 300 41 01 00 20
4"	4.500"	11	.409"	220.0 lbs.	PGA 400 41 01 00 20

Other SDR's available upon request

CTS Standard Sizes

Size	O.D.	Min. Wall	Weight Per 100'	Part Number
1/2"	.625"	.090"	6.6 lbs.	PGA 050 41 01 00 36
3/4"	.875"	.090"	10.0 lbs.	PGA 075 41 01 00 36
1"	1.125"	.090"	12.7 lbs.	PGA 100 41 01 00 36
1"	1.125"	.099"	13.8 lbs.	PGA 100 41 01 00 33
1"	1.125"	.101"	14.3 lbs.	PGA 100 41 01 00 29
1-1/4"	1.375"	.090"	14.9 lbs.	PGA 125 41 01 00 36

CTS Tubing in other wall thickness ratings available upon request

Color Specifications

Available in: **Yellow** (gas)

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ENDOT INDUSTRIES

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Yellow Gas Pipe PE 2406/2708

Polyethylene Pipe & Tubing for Natural Gas & LPG

ENDOT's yellow polyethylene gas pipe and tubing is manufactured and tested to meet or exceed the national standards for gas pressure pipe and tubing, including ASTM D2513 and the regulations in Part 192 of the Federal Gas Pipeline regulations.

ENDOT's yellow gas pipe and tubing is manufactured using a high performance, bimodal, medium density polyethylene resin which exceeds industry standards, and provides excellent environmental stress crack resistance and outstanding long term stress rupture performance.

Material Properties | PE 2406/2708

Property	ASTM Test	Typical Values
Cell Classification	D3350	234373HBDE
Density (natural resin)	D792	0.94 g/cc
Melt Index @ 190°C/2.16 kg	D1238	>0.15 g/10 min
Tensile Strength @ Yield	D638	>2,600 PSI (>18 MPa)
Elongation at Break	D638	>600%
Flexural Modulus	D790	>90,000 PSI (>620 MPa)
Brittleness Temp.	D746	<-103°F (<-76°C)
Slow Crack Growth Pent	F1473	>10,000 hours
Hydrostatic Design Basis		
@ 73°F (23°C)	D2837	1,250 PSI (8.6 MPa)
@ 140°F (60°C)	D2837	1,000 PSI (6.9 MPa)
Thermal Stability	D3350	>428°F (>220°C)

Connections | PE 2406/2708

PE 2406/2708 polyethylene resin can be joined using mechanical connections or by heat fusion. All mechanical connections must be installed using the fittings manufacturer's guidelines and instructions. Fusion joints are to be made according to ASTM F2620, Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings.

Socket fusion connections are to be made using manufacturer's specific instructions. See Socket Fusion Time Cycles Chart.

- After an undisturbed cooling time of 3 minutes, the Cold Ring Clamp can be removed
- Allow an additional 10 minutes of undisturbed cooling time before testing, backfilling or stressing the joint

Socket Fusion Time Cycles

Pipe Size	Heat Time Secs	Holding Time Secs
1/2" CTS	6 - 7	30
3/4" CTS	6 - 7	30
1" CTS	9 - 10	30
1-1/4" CTS	10 - 12	30
1/2" IPS	6 - 7	30
3/4" IPS	8 - 10	30
1" IPS	10 - 12	30
1-1/4" IPS	12 - 14	45
1-1/2" IPS	14 - 17	45
2" IPS	16 - 19	45

Pressure Ratings For ENDOT's Yellow PE 2406/2708 Gas Pipe & Tubing

For Natural Gas - Design pressures and pressure limitations are defined in Part 192, Title 40 of the Code of Federal Regulations for the Department of Transportation of Natural and Other Gas Pipeline-Department of Transportation, Office of Pipeline Safety. The pressure may not exceed 100 PSIG in natural gas distribution systems.

For LPG Service - Use Recommendation for Polyethylene Piping Systems for LPG and its major components, propane and butane gas is published by the Plastic Pipe Institute (Technical Report PPI-TR22-2013).

CAUTION: Polyethylene pipe or tubing should be used only in buried, underground applications. Polyethylene should never be used in aboveground applications where it is continuously exposed to Ultraviolet light.