



YELLOW MDPE PE2708 FOR GAS DISTRIBUTION

APPLICATIONS

Pipeline Plastics Yellow Gas Distribution product is a PE2708 medium density polyethylene (MDPE) pipe designed to meet the requirements of federally regulated pipelines transporting natural and other gas under the jurisdiction of 49 CFR 192. Yellow Gas Distribution pipe is manufactured in conformance with ASTM D2513 which also conforms with D2513-18a, the current referenced version in the federal code, and does not contain rework material in conformance with 49 CFR §192.59(d).

CONFORMANCE

- Contains no rework in conformance with 49 CFR 192.59(d)
- ASTM D2513 Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing and Fittings
- Cell Classification PE234373E per ASTM D3350
- Plastics Pipe Institute (PPI) TR-4 Listing as PE2708 (also meets PE2406 per D3350-02a)
- Hydrostatic Design Basis (HDB) 1,250 psi @ 73°F (23°C) and 1,000 psi @ 140°F per ASTM D2837
- Color & UV Stabilizer: (E) Colored with UV stabilization for minimum 3 year outdoor storage per D2513
- Heat fusion procedure according to ASTM F2620, and PPI TR-33 and TR-41
- Installation is recommended to follow PPI Handbook of Polyethylene Pipe, 2nd ed., and AGA Plastic Pipe Manual.
- Leak testing should be performed according to ASTM F2164, "Standard Practice for Field Leak Testing of Polyethylene (PE) and Crosslinked Polyethylene (PEX) Pressure Piping Systems Using Hydrostatic Pressure." Appropriate safety considerations should always be followed.

Physical Properties	Nominal Value*	Test Method
Density	0.942 g/cc	ASTM D1505
Melt Index (MI) 190°C/2.16kg	0.20 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6kg)	20 g/10 min	ASTM D1238
SCG Resistance (PENT)	>500 hours	ASTM F1473
Tensile Stress @ Yield	2,800 psi	ASTM D638
Tensile Stress @ Break	4,000 psi	ASTM D638

Physical Properties	Nominal Value*	Test Method
Elongation @ Break	>500 %	ASTM D638
Flexural Modulus (2% secant)	90,000 psi	ASTM D790
Brittleness Temperature	< -180 °F	ASTM D746
Hardness	62 Shore D	ASTM D2240
Vicat Softening Temperature	248 °F	ASTM D1525
Thermal Expansion Coefficient	1.0 x 10 ⁻⁴ in/in/°F	ASTM D696

* Nominal values are typical results and are not guaranteed or intended to be used as a product specification or engineering values.

Pipe Size CTS	OD	DR	Min Wall	Weight (lbs / Ft)	Coil Length (ft)	Coils per Pack	Feet per Pack	Packs per Truck	Coils per Truck	Feet per Truck	Pallet Size (in)	Coil Dimensions (in)			Load Length (ft)	TL Weight (lbs)
												ID	OD	Width		
1/2"	0.625	N/A	0.090	0.065	500	12	6000	26	312	156000	44	30	38	6.00	48	10140
1/2"	0.625	N/A	0.090	0.065	1000	12	12000	24	288	288000	48	30	43	6.50	48	18720
1"	1.125	N/A	0.099	0.139	500	7	3500	26	182	91000	44	30	43	10.50	48	12649

Pipe Size IPS	OD	DR	Min Wall	Weight (lbs / Ft)	Coil Length (ft)	Coils per Pack	Feet per Pack	Packs per Truck	Coils per Truck	Feet per Truck	Pallet Size (in)	Coil Dimensions (in)			Load Length (ft)	TL Weight (lbs)
												ID	OD	Width		
1/2"	0.840	9.33	0.090	0.091	500	12	6000	26	312	156000	44	30	42	6.00	48	14180
3/4"	1.050	11	0.095	0.123	500	7	3500	26	182	91000	44	30	42	10.50	48	11202
1"	1.315	11	0.120	0.194	500	7	3500	24	168	84000	48	30	46	12	48	16277
1 1/4"	1.660	10	0.166	0.335	500	12	6000	7	84	42000	78	48	75	7.50	46	14089
1 1/2"	1.900	11	0.173	0.404	500	10	5000	7	70	35000	78	50	77	9.00	46	14124
2"	2.375	11	0.216	0.631	500	6	3000	7	42	21000	78	50	78	14	46	13254
					500	7	3500	7	49	24500	78	50	78	14	46	15463
					1500	2	3000	7	14	21000	80	50	80	36	47	13254
		11.5	0.207	0.606	500	6	3000	7	42	21000	78	50	78	14	46	12735
					500	7	3500	7	49	24500	78	50	78	14	46	14857
1500	2	3000	7	14	21000	80	50	80	36	47	12735					
												3"	3.500	11	0.318	1.369
3"	3.500	11.5	0.304	1.318	500	4	2000	6	24	12000	96	70	96	24	48	15815
					500	4	2000	6	24	12000	96	70	96	24	48	15815
4"	4.500	11	0.409	2.266	500	2	1000	6	12	6000	96	70	93	41	48	13598
					600	2	1200	6	12	7200	96	70	93	47	48	16318
					1000	2	2000	4	8	8000	FS	84	116	49	39	18131
		11.5	0.391	2.177	500	2	1000	6	12	6000	96	70	93	41	48	13064
					600	2	1200	6	12	7200	96	70	93	47	48	15676
					1000	2	2000	4	8	8000	FS	84	116	49	39	17418
		13.5	0.333	1.880	500	2	1000	6	12	6000	96	70	93	41	48	11281
					600	2	1200	6	12	7200	96	70	93	47	48	13537
					1000	2	2000	4	8	8000	FS	84	116	49	39	15041
					6"	6.625	11	0.602	4.906	450	2	900	4	8	3600	FS
500	2	1000	4	8	4000					FS	84	120	50	40	19623	
11.5	0.576	4.719	450	2	900		4	8	3600	FS	84	120	50	40	16990	
			500	2	1000		4	8	4000	FS	84	120	50	40	18877	
13.5	0.491	4.077	450	2	900		4	8	3600	FS	84	120	50	40	14678	
			500	2	1000		4	8	4000	FS	84	120	50	40	16309	

Note: FS = Free standing coils or pack without pallet.

Pipe Size IPS	OD	DR	Weight (lbs) / Ft	Joints per Bundle	Feet per Bundle	Weight per Bundle	Full Bundles per Truck	Total Joints per Truck	Total Feet per Truck	Weight per Truck Load
					40'	40'	40'	40'	40'	40'
1"	1.315	11	0.194	236	-	-	-	-	-	-
1 1/4"	1.660	10	0.335	153	6,120	2,053	14	2,142	85,680	28,741
1 1/2"	1.900	11	0.404	129	5,160	2,082	14	1,806	72,240	29,152
2"	2.375	11	0.631	98	3,920	2,474	16	1,568	62,720	39,587
		11.5	0.606	98	3,920	2,377	16	1,568	62,720	38,034
3"	3.500	11	1.369	25	1,000	1,369	24	600	24,000	32,856
		11.5	1.318	25	1,000	1,318	24	600	24,000	31,631
4"	4.500	11	2.266	29	1,160	2,629	14	406	16,240	36,806
		11.5	2.177	29	1,160	2,526	14	406	16,240	35,359
		13.5	1.880	29	1,160	2,181	14	406	16,240	30,533
6"	6.625	11	4.906	13	520	2,551	14	182	7,280	35,714
		11.5	4.719	13	520	2,454	14	182	7,280	34,357
		13.5	4.077	13	520	2,120	14	182	7,280	29,682
8"	8.625	11	8.318	9	360	2,995	10	90	3,600	29,946
		11.5	7.995	9	360	2,878	10	90	3,600	28,781
		13.5	6.911	9	360	2,488	10	90	3,600	24,879