



Physical Properties	Nominal Value*	Test Method
Density	0.960 g/cm ³	ASTM D1505
Melt Index (MI) 190°C/2.16kg	0.07 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6kg)	7-16 g/10 min	ASTM D1238
SCG Resistance (PENT)	>500 hours	ASTM F1473
Tensile Stress @ Yield	3,500 psi	ASTM D638
Tensile Stress @ Break	5,000 psi	ASTM D638
Elongation @ Break	>500 %	ASTM D638
Flexural Modulus (2% secant)	150,000 psi	ASTM D790
Brittleness Temperature	< -103°F	ASTM D746
Hardness	62 Shore D	ASTM D2240
Vicat Softening Temperature	256°F	ASTM D1525
Thermal Expansion	1.0 x 10 ⁻⁴ in/in/°F	ASTM D696

IPS	PR ^A / PC ^B	250	200
Size	OD (in)	DR	9 11
2"	2.375	Min Wall (in)	0.264 0.216
		ID ^C (in)	1.815 1.917
		Lb / Ft ^D	0.787 0.643
4"	4.5	Min Wall (in)	0.500 0.409
		ID ^C (in)	3.440 3.633
		Lb / Ft ^D	2.751 2.307
6"	6.625	Min Wall (in)	0.736 0.602
		ID ^C (in)	5.065 5.348
		Lb / Ft ^D	5.961 4.994
8"	8.625	Min Wall (in)	0.958 0.784
		ID ^C (in)	6.594 6.960
		Lb / Ft ^D	10.108 8.468
10"	10.75	Min Wall (in)	1.194 0.977
		ID ^C (in)	8.219 8.680
		Lb / Ft ^D	15.699 13.158
12"	12.75	Min Wall (in)	1.417 1.159
		ID ^C (in)	9.746 10.290
		Lb / Ft ^D	22.089 18.513
14"	14	Min Wall (in)	1.556 1.273
		ID ^C (in)	10.701 11.300
		Lb / Ft ^D	26.629 22.314
16"	16	Min Wall (in)	1.778 1.455
		ID ^C (in)	12.231 12.920
		Lb / Ft ^D	34.772 29.149
18"	18	Min Wall (in)	2.000 1.636
		ID ^C (in)	13.760 14.530
		Lb / Ft ^D	44.017 36.897
20"	20	Min Wall (in)	2.222 1.818
		ID ^C (in)	15.289 16.150
		Lb / Ft ^D	54.351 45.535
22"	22	Min Wall (in)	2.444 2.000
		ID ^C (in)	16.819 17.760
		Lb / Ft ^D	65.752 55.105
24"	24	Min Wall (in)	2.667 2.182
		ID ^C (in)	18.346 19.370
		Lb / Ft ^D	78.261 65.586

DIPS	PR ^A / PC ^B	250	200
Size	OD (in)	DR	9 11
4"	4.80	Min Wall (in)	0.533 0.436
		ID ^C (in)	3.670 3.875
		Lb / Ft ^D	3.130 2.623
6"	6.90	Min Wall (in)	0.767 0.627
		ID ^C (in)	5.274 5.570
		Lb / Ft ^D	6.468 5.421
8"	9.05	Min Wall (in)	1.006 0.823
		ID ^C (in)	6.917 7.306
		Lb / Ft ^D	11.127 9.325
10"	11.10	Min Wall (in)	1.233 1.009
		ID ^C (in)	8.486 8.961
		Lb / Ft ^D	16.739 14.028
12"	13.20	Min Wall (in)	1.467 1.200
		ID ^C (in)	10.090 10.660
		Lb / Ft ^D	23.671 19.838
14"	15.30	Min Wall (in)	1.700 1.391
		ID ^C (in)	11.696 12.350
		Lb / Ft ^D	31.802 26.652
16"	17.40	Min Wall (in)	1.933 1.582
		ID ^C (in)	13.302 14.050
		Lb / Ft ^D	41.132 34.470
18"	19.50	Min Wall (in)	2.167 1.773
		ID ^C (in)	14.906 15.740
		Lb / Ft ^D	51.659 43.292
20"	21.60	Min Wall (in)	2.400 1.964
		ID ^C (in)	16.512 17.440
		Lb / Ft ^D	63.385 53.119
24"	25.80	Min Wall (in)	2.867 2.345
		ID ^C (in)	19.722 20.830
		Lb / Ft ^D	90.431 75.785

APPLICATIONS

High-performance, high-density polyethylene (HDPE) pipe for underground fire protection services, providing a leak-free, NSF certified fire protection system. FM Approved pipe is available with no stripe, red stripe, or blue stripe when requested.

CONFORMANCE

- FM Approval Standard Class Number 1613 Polyethylene Pipe and Fittings for Underground Fire Protection
- ASTM F714, "Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter."
- ANSI/AWWA C906, "Polyethylene (PE) Pressure Pipe and Fittings, 4" to 65" (100mm to 1650mm), for Waterworks."
- Cell Classification PE445574C per ASTM D3350
- NSF/ANSI/CAN 61 & 372
- Plastics Pipe Institute (PPI) TR-4 Listing as PE4710 / PE100
- Hydrostatic Design Basis 1,600 psi @ 73°F (23°C) and 1,000 psi @ 140°F (60°C) per ASTM D2837
- Color & UV Stabilizer: (C) Black with 2% min Carbon Black per ASTM D3350
- Heat Fusion Joining as per ASTM F2620 and PPI TR-33/TR-41.
- Installation as per AWWA M55 and PPI PE Pipe Handbook, 2nd ed.

Note - SPT FM Approved Pipe is available exclusively in the sizes and pressure classes shown.

- PR: Pressure Rating in pounds/sq. in. (psi) for ASTM F714 Water up to 80°F.
- PC: Pressure Class in pounds/sq. in. (psi) for ANSI / AWWA C906 Water up to 80°F.
- ID: Inside Diameter may vary due to manufacturing tolerances.
- Wt / Ft: Weight per foot in pounds may vary due to manufacturing tolerances.

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