



### **Typical Applications:**

Bimodal PE4710 HDPE pipe for oil and gas gathering, multiphase fluids, and non-potable oilfield water.

### **Manufacturing Standard:**

ASTM F2619- Standard Specification for High Density Polyethylene (PE) Line Pipe.

API 15LE- Specification for Polyethylene Line Pipe (PE).

### **Quality<sup>1</sup>:**

Infra Pipe Solutions produce polyethylene pipe in the manufacturing facilities accredited to ISO 9001:2015.

### **Pipe Sizes<sup>2</sup>:**

IPS 4" to 24"

### **Typical Material Properties<sup>3</sup>:**

Manufactured from a bimodal high density polyethylene compound which meets or exceeds the minimum cell classification requirements of 445574C per ASTM D3350. The material is listed in Plastics Pipe Institute (PPI) TR-4 with HDB ratings of 1,600 psi at 73°F and a 1,000 psi at 140 °F per ASTM D2837.

### **Joining Methods:**

Sclairpipe pipe is typically joined by heat fusion. There are three types of conventional heat fusion joints currently used in the industry; Butt, Saddle, and Socket Fusion. Additionally, electrofusion (EF) joining and many types of mechanical fittings can also be used. The ASTM F2620 practice describes procedures for making joints with polyethylene (PE) pipe and fittings by means of heat fusion joining.

### **Weatherability:**

Pipe is produced from the PE4710 compound designated as code C ( black with 2% minimum carbon black) per ASTM D3350. It has been demonstrated that this amount of well-dispersed very fine particle carbon black grade, provides sufficient protection for continuous outdoor service for more than 50 years<sup>4</sup>.

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<sup>1</sup> ISO certification for U.S. facilities is underway.

<sup>2</sup> Please contact Infra Pipe Solutions to confirm availability and for additional sizes and DR's not shown.

<sup>3</sup> Typical properties will vary within specification limits.

<sup>4</sup> Plastic Pipe Institute TR-18, Weatherability of Thermoplastic Piping Systems.

**IPS Size and Dimension Data:**

IPS SIZE	OD avg. (in)	DR 7 335 psi			DR 9 250 psi			DR 11 200 psi			DR 13.5 160 psi			DR 17 125 psi		
		Min Wall (in)	ID avg. (in)	Wgt. lbs/ft	Min Wall (in)	ID avg. (in)	Wgt. lbs/ft	Min Wall (in)	ID avg. (in)	Wgt. lbs/ft	Min Wall (in)	ID avg. (in)	Wgt. lbs/ft	Min Wall (in)	ID avg. (in)	Wgt. lbs/ft
4"	4.50	0.643	3.137	3.401	0.500	3.440	2.750	0.409	3.633	2.304	0.333	3.794	1.913	0.265	3.938	1.549
6"	6.625	0.946	4.619	7.369	0.736	5.065	5.958	0.602	5.349	4.992	0.491	5.584	4.153	0.390	5.798	3.357
8"	8.625	1.232	6.013	12.492	0.958	6.594	10.099	0.784	6.963	8.465	0.639	7.270	7.037	0.507	7.550	5.681
10"	10.75	1.536	7.494	19.408	1.194	8.219	15.686	0.977	8.679	13.147	0.796	9.062	10.927	0.632	9.410	8.826
12"	12.75	1.821	8.889	27.297	1.417	9.746	22.079	1.159	10.293	18.498	0.944	10.749	15.363	0.750	11.160	12.421
14"	14.00	2.000	9.760	32.915	1.556	10.701	26.624	1.273	11.301	22.311	1.037	11.802	18.530	0.824	12.253	14.985
16"	16.00	2.286	11.154	42.993	1.778	12.231	34.764	1.455	12.915	29.145	1.185	13.488	24.202	0.941	14.005	19.558
18"	18.00	2.571	12.549	54.407	2.000	13.760	43.998	1.636	14.532	36.862	1.333	15.174	30.630	1.059	15.755	24.759
20"	20.00	2.857	13.943	67.172	2.222	15.289	54.317	1.818	16.146	45.515	1.482	16.858	37.837	1.176	17.507	30.550
22"	22.00	3.143	13.337	81.282	2.444	16.819	65.711	2.000	17.760	55.080	1.630	18.544	45.781	1.294	19.257	36.975
24"	24.00	3.429	16.731	96.735	2.667	18.346	78.226	2.182	19.374	65.557	1.778	20.231	54.467	1.412	21.007	44.012

Pipe dimensions are in accordance with ASTM F2619 and API 15LE. Pressure ratings are for water-based applications at 73°F. Ratings will vary for other fluids and temperatures. Please contact your IPS representative to confirm availability and for sizes and DR's not shown. Weights are calculated by the methodology established in PPI's TR-7. Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Infra Pipe Solutions assumes no responsibility for the use of information presented here in and disclaim all liability in regard to such use.

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