



HDPE Conduit Specifications

- D1248 Standard Specification for Polyethylene Plastics Extrusion Materials For Wire and Cable
- ASTM D 2239 HDPE based on controlled inside diameter
- ASTM D 3035 HDPE based on controlled outside diameter
- ASTM F 2160 Solid wall High Density Polyethylene based on controlled outside diameter.
(Material conforms to minimum standard of PE334470E/C as covered in ASTM 3350.)
- NEMA TC-7 Standards D618, D792 & D883

Resin Properties shall meet or exceed the properties below:

ASTM TEST	DESCRIPTION	VALUES HDPE
D1505	Density g/CM3	.941 - .955
D1238	Melt Index g/10 min - Condition E	.1 - .4
D 790	Flexural Modulus MPa (PSI)	80,000 min.
D 638	Tensile Strength at Yield (PSI)	3,000 min.
D 1693	Environmental Stress Crack Resistance Condition B, F10	96 Hrs min.
D 746	Brittleness Temperature	-75°C

Schedule 40 Nominal Pipe Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)	Schedule 80 Nominal Pipe Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
1"	1.315	0.133	1.049	0.21	1"	1.315	0.179	0.957	0.27
1 1/4"	1.660	0.14	1.38	0.29	1 1/4"	1.660	0.191	1.278	0.38
1 1/2"	1.900	0.145	1.61	0.34	1 1/2"	1.900	0.200	1.500	0.46
2"	2.375	0.154	2.067	0.46	2"	2.375	0.218	1.939	0.63
2 1/2"	2.875	0.203	2.469	0.73	2 1/2"	2.875	0.276	2.323	0.97
3"	3.5	0.216	3.068	0.96	3"	3.5	0.300	2.900	1.29
4"	4.5	0.237	4.026	1.36	4"	4.5	0.337	3.826	1.89
		Sdr 11.5 Nominal Pipe Size		Avg OD	Min. Wall	Avg ID	Wt. (lb/ft)		
		4" SIDR		4.726	0.35	4.026	2.064		

