

Solid wall HDPE Pipe Specifications

Schedule 40 - ASTM F2160 / NEMA TC 7 EPEC-40

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	1.050	0.113	0.824	0.143
1"	1.315	0.133	1.049	0.212
1.25"	1.660	0.140	1.380	0.287
1.5"	1.900	0.145	1.610	0.343
2"	2.375	0.154	2.067	0.461
2.5"	2.875	0.203	2.469	0.731
3"	3.500	0.216	3.068	0.956
4"	4.500	0.237	4.026	1.362
5"	5.563	0.257	5.046	1.844
6"	6.625	0.280	6.065	2.394

Schedule 80 - ASTM F2160 / NEMA TC 7 EPEC-80

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	1.050	0.154	0.742	0.186
1"	1.315	0.179	0.957	0.274
1.25"	1.660	0.191	1.278	0.378
1.5"	1.900	0.200	1.500	0.458
2"	2.375	0.218	1.939	0.634
2.5"	2.875	0.276	2.323	0.967
3"	3.500	0.300	2.900	1.294
4"	4.500	0.337	3.826	1.891
5"	5.563	0.375	4.812	2.621
6"	6.625	0.432	5.761	3.605

SDR 7 - ASTM D3035

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	1.050	0.150	0.732	0.180
1"	1.315	0.188	0.916	0.290
1.25"	1.660	0.237	1.186	0.450
1.5"	1.900	0.271	1.358	0.590
2"	2.375	0.339	1.656	0.940
2.5"	-	-	-	-
3"	3.500	0.500	2.440	2.050
4"	4.500	0.643	3.137	3.390
5"	5.563	0.795	3.878	5.170
6"	6.625	0.946	4.619	7.330

SDR 9 - ASTM D3035 / ASTM F2160

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	1.050	0.117	0.802	0.150
1"	1.315	0.146	1.005	0.230
1.25"	1.660	0.184	1.292	0.370
1.5"	1.900	0.211	1.478	0.480
2"	2.375	0.264	1.815	0.760
2.5"	-	-	-	-
3"	3.500	0.389	2.675	1.660
4"	4.500	0.500	3.440	2.740
5"	5.563	0.618	4.253	4.180
6"	6.625	0.736	5.065	5.930

SDR 11 - ASTM D3035 / ASTM F2160 / NEMA TC 7

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	1.050	0.950	0.849	0.120
1"	1.315	0.120	1.061	0.200
1.25"	1.660	0.151	1.358	0.310
1.5"	1.900	0.173	1.554	0.400
2"	2.375	0.216	1.917	0.640
2.5"	2.875	0.262	2.351	0.930
3"	3.500	0.318	2.826	1.390
4"	4.500	0.409	3.633	2.290
5"	5.563	0.506	4.490	3.510
6"	6.625	0.602	5.349	4.970

SDR 13.5 - ASTM D3035 / ASTM F2160 / NEMA TC 7

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	1.050	0.078	0.885	0.100
1"	1.315	0.097	1.109	0.160
1.25"	1.660	0.123	1.414	0.255
1.5"	1.900	0.141	1.618	0.330
2"	2.375	0.176	2.002	0.530
2.5"	2.875	0.213	2.449	0.764
3"	3.500	0.259	2.951	1.150
4"	4.500	0.333	3.794	1.900
5"	5.563	0.412	4.690	2.910
6"	6.625	0.491	5.584	4.130

SDR 15.5 - ASTM D3035 / ASTM F2160

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	-	-	-	-
1"	-	-	-	-
1.25"	1.660	0.107	1.446	0.224
1.5"	1.900	0.123	1.654	0.295
2"	2.375	0.153	2.069	0.458
2.5"	-	-	-	-
3"	3.500	0.226	3.048	0.997
4"	4.500	0.290	3.920	1.645
5"	5.563	0.359	4.844	2.517
6"	6.625	0.427	5.771	3.566

SDR 17 - ASTM D3035 / NEMA TC 7

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	-	-	-	-
1"	-	-	-	-
1.25"	-	-	-	-
1.5"	1.900	0.112	1.676	0.270
2"	2.375	0.140	2.078	0.430
2.5"	-	-	-	-
3"	3.500	0.206	3.063	0.932
4"	4.500	0.265	3.938	1.514
5"	5.563	0.327	4.870	2.352
6"	6.625	0.390	5.798	3.340

SDR 19 - ASTM D3035

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	-	-	-	-
1"	-	-	-	-
1.25"	-	-	-	-
1.5"	-	-	-	-
2"	2.375	0.125	2.110	0.390
2.5"	-	-	-	-
3"	3.500	0.184	3.110	0.840
4"	4.500	0.237	3.998	1.390
5"	5.563	0.293	4.942	2.120
6"	6.625	0.349	5.885	3.010

SDR 21 - ASTM D3035

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	-	-	-	-
1"	-	-	-	-
1.25"	-	-	-	-
1.5"	-	-	-	-
2"	2.375	0.113	2.135	0.350
2.5"	-	-	-	-
3"	3.500	0.167	3.140	0.770
4"	4.500	0.214	4.046	1.260
5"	5.563	0.265	5.001	0.193
6"	6.625	0.315	5.957	2.730

SDR 26 - ASTM D3035

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	-	-	-	-
1"	-	-	-	-
1.25"	-	-	-	-
1.5"	-	-	-	-
2"	-	-	-	-
2.5"	-	-	-	-
3"	3.500	0.135	3.214	0.630
4"	4.500	0.173	4.133	1.030
5"	5.563	0.214	5.109	1.570
6"	6.625	0.255	6.084	2.230

SDR 32.5 - ASTM D3035

Nom. Size	Avg. OD	Min. Wall	Avg. ID	Wt. (lb/ft)
3/4"	-	-	-	-
1"	-	-	-	-
1.25"	-	-	-	-
1.5"	-	-	-	-
2"	-	-	-	-
2.5"	-	-	-	-
3"	-	-	-	-
4"	4.500	0.138	4.207	0.830
5"	5.563	0.171	5.200	1.270
6"	6.625	0.204	6.193	1.800

Conduit HDPE Pipe Material Specifications

Polyethylene plastics, as defined by ASTM D3350, are plastics or resins prepared by the polymerization of no less than 85% ethylene and no less than 95% of total olefins with additional compounding ingredients. All Endurance Poly Producers' polyethylene conduit materials shall meet or exceed cell class PE334430B per ASTM D3350, as listed in the cell classification table below. Conduit HDPE pipe shall also be made in accordance with ASTM F2160.

Polyethylene Pipe Cell Classification				
Property	Units	Test Method	Acceptable Range	Value, PE
Density	g/cm ³	D1505	>0.940 - 0.947	3
Melt index	g/10 min	D1238	<0.4 to <0.15	3 or 4
Flexural modulus	psi	D790	80,000 - <160,000	4 or 5
Tensile strength at yield	psi	D638	3000 - <4000	4 or 5
SCGR @ F = 20% max	hours	D1693 / F1473	192 – 600 / 10	3 or 4
Hydrostatic Strength Classification	psi	D2837	Undefined	0 - 4
Color and UV stabilizer	N/A	D3350	A - E	B - E