

Normative

Plásticos Enres, S.A. de C.V. can manufacture pipes and ducts under these norms.

NMX-E-018-SCFI2002 **HDPE for high pressure water conduction**

ASTM-D-3035-08 Polyethylene pipes based on controlled exterior diameter

ASTM D 2239-03 Polyethylene pipes based on controlled inner diameter

NRF-057-CFE HDPE for underground cabling

NMX-E-242/2 - ANCE-CNCP-2005 HDPE for underground electric installation

NMX-E-146-SCFI2002 HDPE for home tap water

NMX-E-216-1994- SCFI HDPE for sewerage

Or we can adjust to any norm or specification the customer requires

Dimension table

Norm: ASTM-D – 3035-93

Controlled exterior diameter / High Density Polyethylene

SDR-7							
Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.120	3.0	0.125	0.186
¾	19	1.050	26.70	0.150	3.8	0.194	0.228
1	25	1.315	33.40	0.188	4.8	0.306	0.456
1 ¼	32	1.660	42.20	0.237	6.0	0.475	0.708
1 ½	38	1.900	48.30	0.271	6.9	0.613	0.912
2	50	2.375	60.30	0.339	8.6	0.943	1.403
3	75	3.500	88.90	0.550	12.7	2.042	3.039
4	100	4.500	114.30	0.643	16.3	3.392	5.046
6	150	6.625	168.28	0.946	24.0	7.307	10.873
8	200	8.625	219.08	1.232	31.3	12.402	18.455
10	250	10.750	273.05	1.536	39.0	19.261	28.662

SDR-9							
Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.93	2.3	0.100	0.148
¾	19	1.050	26.70	0.117	2.9	0.154	0.229
1	25	1.315	33.40	0.146	3.7	0.245	0.335
1 ¼	32	1.660	42.20	0.184	4.6	0.379	0.563
1 ½	38	1.900	48.30	0.211	5.3	0.489	0.728
2	50	2.375	60.30	0.264	6.7	0.752	1.134
3	75	3.500	88.90	0.389	9.8	1.636	2.434
4	100	4.500	114.30	0.500	12.7	2.740	4.077
6	150	6.625	168.28	0.736	18.7	5.875	8.742
8	200	8.625	219.08	0.958	24.3	9.987	14.862
10	250	10.750	273.05	1.194	30.3	15.520	23.096

SDR-9.3

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.090	2.3	0.100	0.148
¾	19	1.050	26.70	0.113	2.9	0.154	0.229
1	25	1.315	33.40	0.141	3.6	0.239	0.356
1 ¼	32	1.660	42.20	0.178	4.5	0.372	0.553
1 ½	38	1.900	48.30	0.204	5.2	0.481	0.716
2	50	2.375	60.30	0.255	6.5	0.742	1.104
3	75	3.500	88.90	0.376	9.5	1.592	2.369
4	100	4.500	114.30	0.484	12.3	2.663	3.963
6	150	6.625	168.28	0.712	18.1	5.736	8.535
8	200	8.625	219.08	0.927	23.5	9.698	14.432
10	250	10.750	273.05	1.156	29.4	15.115	22.493

SDR-11

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.076	1.9	0.085	0.126
¾	19	1.050	26.70	0.095	2.4	0.130	1.193
1	25	1.315	33.40	0.120	3.0	0.203	0.302
1 ¼	32	1.660	42.20	0.151	3.8	0.320	0.475
1 ½	38	1.900	48.30	0.173	4.4	0.415	0.611
2	50	2.375	60.30	0.216	5.5	0.640	0.951
3	75	3.500	88.90	0.318	8.1	1.381	2.055
4	100	4.500	114.30	0.409	10.4	2.294	3.414
6	150	6.625	168.28	0.602	15.3	4.939	7.349
8	200	8.625	219.08	0.784	19.9	8.364	12.446
10	250	10.750	273.05	0.997	24.8	12.991	19.332

SDR-13.5

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.062	1.6	0.073	0.107
¾	19	1.050	26.70	0.078	1.9	0.105	0.157
1	25	1.315	33.40	0.097	2.5	0.173	0.257
1 ¼	32	1.660	42.20	0.123	3.1	0.266	0.395
1 ½	38	1.900	48.30	0.141	3.6	0.346	0.513
2	50	2.375	60.30	0.176	4.5	0.533	0.792
3	75	3.500	88.90	0.259	6.6	1.146	1.706
4	100	4.500	114.30	0.333	8.5	1.910	2.841
6	150	6.625	168.28	0.491	12.5	4.109	6.114
8	200	8.625	219.08	0.639	16.2	6.935	10.320
10	250	10.750	273.05	0.796	20.2	10.777	16.038

SDR-15.5

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.062	1.6	0.073	0.107
¾	19	1.050	26.70	0.068	1.7	0.095	0.141
1	25	1.315	33.40	0.084	2.1	0.147	0.218
1 ¼	32	1.660	42.20	0.107	2.7	0.234	0.348
1 ½	38	1.900	48.30	0.123	3.1	0.301	0.447
2	50	2.375	60.30	0.153	3.9	0.467	0.695
3	75	3.500	88.90	0.226	5.7	1.001	1.489
4	100	4.500	114.30	0.290	7.4	1.679	2.499
6	150	6.625	168.28	0.427	10.8	3.587	5.340
8	200	8.625	219.08	0.556	14.1	6.099	9.075
10	250	10.750	273.05	0.694	17.6	9.487	14.117

SDR-17

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.062	1.6	0.073	0.107
¾	19	1.050	26.70	0.062	1.6	0.090	0.133
1	25	1.315	33.40	0.077	1.9	0.171	0.199
1 ¼	32	1.660	42.20	0.098	2.5	0.217	0.324
1 ½	38	1.900	48.30	0.112	2.8	0.274	0.407
2	50	2.375	60.30	0.140	3.6	0.434	0.645
3	75	3.500	88.90	0.206	5.2	0.918	1.367
4	100	4.500	114.30	0.265	6.7	1.531	2.278
6	150	6.625	168.28	0.390	9.9	3.309	4.923
8	200	8.625	219.08	0.507	12.9	5.612	8.352
10	250	10.750	273.05	0.632	16.08	8.678	12.914

SDR-21

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.062	1.6	0.073	0.107
¾	19	1.050	26.70	0.062	1.6	0.090	0.133
1	25	1.315	33.40	0.063	1.6	0.113	0.169
1 ¼	32	1.660	42.20	0.079	2.0	0.177	0.262
1 ½	38	1.900	48.30	0.090	2.3	0.227	0.338
2	50	2.375	60.30	0.113	2.9	0.353	0.526
3	75	3.500	88.90	0.167	4.3	0.751	1.117
4	100	4.500	114.30	0.214	5.4	1.249	1.858
6	150	6.625	168.28	0.315	8.0	2.706	4.026
8	200	8.625	219.08	0.411	10.4	4.576	6.815
10	250	10.750	273.05	0.512	13.0	7.133	10.615

SDR-26

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.062	1.6	0.073	0.107
¾	19	1.050	26.70	0.062	1.6	0.090	0.133
1	25	1.315	33.40	0.062	1.6	0.113	0.169
1 ¼	32	1.660	42.20	0.064	1.6	0.142	0.212
1 ½	38	1.900	48.30	0.073	1.8	0.180	0.268
2	50	2.375	60.30	0.091	2.3	0.283	0.421
3	75	3.500	88.90	0.135	3.4	0.613	0.913
4	100	4.500	114.30	0.173	4.4	1.027	1.528
6	150	6.625	168.28	0.255	6.5	2.219	3.302
8	200	8.625	219.08	0.332	8.4	3.734	5.557
10	250	10.750	273.05	0.413	10.5	5.817	8.656

SDR-32.5

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.062	1.6	0.073	0.107
¾	19	1.050	26.70	0.062	1.6	0.090	0.133
1	25	1.315	33.40	0.062	1.6	0.113	0.169
1 ¼	32	1.660	42.20	0.062	1.6	0.142	0.212
1 ½	38	1.900	48.30	0.062	1.6	0.161	0.239
2	50	2.375	60.30	0.073	1.8	0.224	0.333
3	75	3.500	88.90	0.108	2.7	0.491	0.731
4	100	4.500	114.30	0.138	3.5	1.789	1.226
6	150	6.625	168.28	0.204	5.2	1.829	2.663
8	200	8.625	219.08	0.265	6.7	3.003	4.468
10	250	10.750	273.05	0.331	8.4	4.691	6.980

SDR-41

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.093		0.073	
¾	19	1.050	26.70	0.117			
1	25	1.315	33.40	0.146			
1 ¼	32	1.660	42.20	0.184			
1 ½	38	1.900	48.30	0.211			
2	50	2.375	60.30	0.264			
3	75	3.500	88.90	0.389			
4	100	4.500	114.30	0.500	2.8	0.659	0.980
6	150	6.625	168.28	0.736	4.1	1.420	2.114
8	200	8.625	219.08	0.958	5.3	2.391	3.558
10	250	10.750	273.05	1.194	6.6	3.711	5.522

Norm: ASTM-D-2239

Controlled inner diameter / High Density Polyethylene

SDR-5.3

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.622	15.80	0.117	2.97	0.118	0.175
¾	19	0.824	20.93	0.155	3.94	0.207	0.307
1	25	1.049	26.64	0.198	5.03	0.336	0.500
1 ¼	32	1.380	35.05	0.260	6.60	0.580	0.864
1 ½	38	1.610	40.89	0.304	7.72	0.792	1.179
2	50	2.067	52.50	0.390	9.91	1.304	1.941
2 ½	60	2.469	62.71				
3	75	3.068	77.93				
4	100	4.026	102.26				
6	150	6.065	154.05				

SDR-7

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.622	15.80	0.089	2.26	0.086	0.128
¾	19	0.824	20.93	0.118	3.00	0.151	0.225
1	25	1.049	26.64	0.150	3.81	0.245	0.364
1 ¼	32	1.380	35.05	0.197	5.00	0.423	0.629
1 ½	38	1.610	40.89	0.230	5.84	0.576	0.857
2	50	2.067	52.50	0.295	7.49	0.949	1.412
2 ½	60	2.469	62.71				
3	75	3.068	77.93				
4	100	4.026	102.26				
6	150	6.065	154.05				

SDR-9

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.622	15.80	0.096	1.75	0.065	0.097
¾	19	0.824	20.93	0.092	2.34	0.115	0.171
1	25	1.049	26.64	0.117	2.97	0.186	0.276
1 ¼	32	1.380	35.05	0.153	3.89	0.319	0.475
1 ½	38	1.610	40.89	0.179	4.55	0.436	0.649
2	50	2.067	52.50	0.230	5.84	0.719	1.070
2 ½	60	2.469	62.71				
3	75	3.068	77.93				
4	100	4.026	102.26				
6	150	6.065	154.05				

SDR-11.5

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.622	15.80	0.060	1.52	0.056	0.083
¾	19	0.824	20.93	0.072	1.83	0.088	0.131
1	25	1.049	26.64	0.091	2.31	0.141	0.210
1 ¼	32	1.380	35.05	0.120	3.05	0.245	0.365
1 ½	38	1.610	40.89	0.140	3.56	0.334	0.496
2	50	2.067	52.50	0.180	4.57	0.551	0.819
2 ½	60	2.469	62.71	0.215	5.46		
3	75	3.068	77.93	0.267	6.78		
4	100	4.026	102.26	0.350	8.89		
6	150	6.065	154.05	0.527	13.39		

SDR-15

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.622	15.80	0.060	1.52	0.056	0.083
¾	19	0.824	20.93	0.060	1.52	0.072	0.107
1	25	1.049	26.64	0.070	1.78	0.107	0.159
1 ¼	32	1.380	35.05	0.092	2.34	0.184	0.274
1 ½	38	1.610	40.89	0.107	2.72	0.250	0.372
2	50	2.067	52.50	0.138	3.51	0.414	0.616
2 ½	60	2.469	62.71	0.165	4.19	0.592	0.880
3	75	3.068	77.93	0.205	5.21	0.913	1.359
4	100	4.026	102.26	0.268	6.81	1.563	2.331
6	150	6.065	154.05	0.404	10.26	3.558	5.294

SDR-19

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.622	15.80	0.060	1.52	0.056	0.083
¾	19	0.824	20.93	0.060	1.52	0.072	0.107
1	25	1.049	26.64	0.060	1.52	0.091	0.135
1 ¼	32	1.380	35.05	0.073	1.85	0.114	0.215
1 ½	38	1.610	40.89	0.085	2.16	0.196	0.292
2	50	2.067	52.50	0.109	2.77	0.323	0.480
2 ½	60	2.469	62.71	0.130	3.30	0.460	0.684
3	75	3.068	77.93	0.161	4.09	0.708	1.053
4	100	4.026	102.26	0.212	5.38	1.223	1.820
6	150	6.065	154.05	0.319	8.10	2.772	4.126

Norm: ASTM – D-2477-93
Exterior diameter - Schedules

Schedule 40

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.109	2.77	0.109	0.163
¾	19	1.050	26.70	0.113	2.87	0.146	0.218
1	25	1.315	33.40	0.133	3.38	0.216	0.321
1 ¼	32	1.660	42.20	0.140	3.56	0.292	0.434
1 ½	38	1.900	48.30	0.145	3.68	0.347	0.517
2	50	2.375	60.30	0.154	3.91	0.467	0.695
3	75	3.500	88.90	0.216	5.49	0.964	1.434
4	100	4.500	114.30	0.237	6.02	1.433	2.132
6	150	6.625	168.28	0.280	7.11	2.418	3.598
8	200	8.625	219.08	0.322	8.18	3.640	5.416
10	250	10.750	273.05	0.365	9.27	5.161	7.679

Schedule 80

Nominal measure		Exterior diameter		Wall thickness		Weight	
Inch	mm	Inch	mm	Inch	mm	Lb/ft	Kg/ml
½	13	0.840	21.30	0.147	3.37	0.138	0.205
¾	19	1.050	26.70	0.154	3.91	0.187	0.278
1	25	1.315	33.40	0.179	4.55	0.274	0.408
1 ¼	32	1.660	42.20	0.191	4.85	0.380	0.565
1 ½	38	1.900	48.30	0.200	5.08	0.460	0.685
2	50	2.375	60.30	0.218	5.54	0.637	0.948
3	75	3.500	88.90	0.300	7.62	1.302	1.937
4	100	4.500	114.30	0.337	8.56	1.903	2.831
6	150	6.625	168.28	0.432	10.97	3.634	5.407
8	200	8.625	219.08	-	-	-	-
10	250	10.750	273.05	-	-	-	-