



# **Schedule 40 PVC Pipe - White, Black, Clear**



## **ENGINEERING GUIDE**

Contact Spears® for any Information not found.



Schedule 40 Fittings Technical  
**Schedule 40 PVC Pipe Dimensions & Pressure Ratings**

**Schedule 40 Pipe**

Nom. Pipe Size (in)	O.D.	Average I.D.	Min. Wall	Nominal Wt./Ft.	Maximum W.P. PSI*
1/8	0.405	0.249	0.068	0.051	810
1/4	0.540	0.344	0.088	0.086	780
3/8	0.675	0.473	0.091	0.115	620
1/2	0.840	0.602	0.109	0.170	600
3/4	1.050	0.804	0.113	0.226	480
1	1.315	1.029	0.133	0.333	450
1-1/4	1.660	1.360	0.140	0.450	370
1-1/2	1.900	1.590	0.145	0.537	330
2	2.375	2.047	0.154	0.720	280
2-1/2	2.875	2.445	0.203	1.136	300
3	3.500	3.042	0.216	1.488	260
3-1/2	4.000	3.521	0.226	1.789	240
4	4.500	3.998	0.237	2.118	220
5	5.563	5.016	0.258	2.874	190
6	6.625	6.031	0.280	3.733	180
8	8.625	7.942	0.322	5.619	160
10	10.750	9.976	0.365	7.966	140
12	12.750	11.889	0.406	10.534	130
14	14.000	13.073	0.437	12.462	130
16	16.000	14.940	0.500	16.286	130
18	18.000	16.809	0.562	20.587	130
20	20.000	18.743	0.593	24.183	120
24	24.000	22.544	0.687	33.652	120

**Maximum PVC Service Temperature 140 °F**  
**Spears® does not recommend threading Schedule 40 Pipe.**  
**Use Schedule 40 Male Adapters, Schedule 40 Female Adapters or**  
**Spears® Special Reinforced (SR) Female Adapters**

**Pressure De-rating at Elevated Temperatures**

The pressure ratings given above are for water, non-shock, @ 73°F. The specified derating factors for PVC are suitable for pipe conveying water at elevated temperatures. To determine elevated temperature rating, multiply 73°F [23°C] pressure rating by appropriate factor shown in the table for desired operating temperature. When working near maximum specified temperature, solvent cement joints are recommended in place of threaded connections. Where disassembly is required at elevated temperatures use Spears® Special reinforced (SR) adapters, flanges, unions or grooved coupling connections. Spears® recommends that only Schedule 80 or heavier wall thickness pipe should be threaded.

PVC Pipe

Operating Temp (°F)	De-Rating Factor
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22

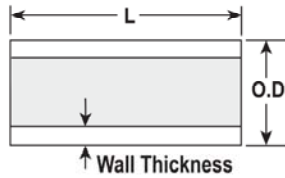
**See Plastic Pipe Engineering Guide for additional information**

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**Pipe - White PVC Schedule 40  
 Plain End**

20' Lengths



Part Number	Size	L	AVG.O.D.	Minimum Wall	Approx. Wt. (Lbs./Ft)
PD-400-005	1/2	20	.840	.109	.17
PD-400-007	3/4	20	1.050	.113	.22
PD-400-010	1	20	1.315	.133	.33
PD-400-012	1-1/4	20	1.660	.140	.45
PD-400-015	1-1/2	20	1.900	.145	.53
PD-400-020	2	20	2.375	.154	.72
PD-400-025	2-1/2	20	2.875	.203	1.13
PD-400-030	3	20	3.500	.216	1.43
PD-400-040	4	20	4.500	.237	2.11
PD-400-050	5	20	5.563	.258	2.87
PD-400-060	6	20	6.625	.280	3.20
PD-400-080	8	20	8.625	.322	5.95
PD-400-100	10	20	10.750	.365	7.53
PD-400-120	12	20	12.750	.406	9.94
PD-400-140	14	20	14	.437	12.46
PD-400-160	16	20	16	.500	15.75
PD-400-180	18	20	18	.562	20.58
PD-400-200	20	20	20	.593	23.62
PD-400-240	24	20	24	.687	33.65

