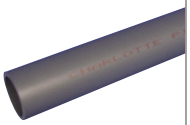

PVC Schedule 80 Pipe & Fittings For Pressure Applications

>> Description

- Rigid pipe and fittings.
- Pipe and fittings are dark gray in color.
- Joined with solvent cement conforming to ASTM D 2564.
- PVC Schedule 80 pressure fittings with straight, angular turns must be used.
- Do NOT use DWV fittings with gradual sanitary turns in pressure systems.

>> Application

- Distribution of pressurized liquids.
- Can be used in industrial applications. See Charlotte Pipe's Chemical Compatibility Chart for more information.
- NOT for compressed air or gasses.

>> Standards

- ASTM D 1785 Plain End Pipe thru 16"
- ASTM D 2467 and ASTM D 2464 Fittings
- NSF Standard 14
- NSF Standard 61 Health Effects

>> Dimensional Standard

- Schedule 80 Iron Pipe Size (IPS)

PVC Schedule 80 Pipe & Fittings For Pressure Applications

>> Cell Class/Material Code

- Cell Class: 12454 (Type 1)
- Material Code: PVC 1120

>> Maximum Working Temperature

- 140° F
- For special applications, threaded connections, unions and flanges, a temperature de-rating factor must be used to determine the pressure rating at temperatures hotter than 73° F.

Please visit **www.charlottepipe.com** for additional information.

>> Maximum Working Pressure

See Product Offering/Data chart on page 27.

>> Joining Method

Solvent Weld Joints

- Solvent cements must meet ASTM D 2564.
- Primer should be IPS P-70 or Oatey Industrial Grade.
- May be flanged with Schedule 80 flanges.
- Threading PVC 80 pipe can be done. Please visit www.charlottepipe.com for additional information.
- Male Iron Pipe size (MIP) and Female Iron Pipe size (FIP) adapters are available.

PVC Schedule 80 Pipe & Fittings For Pressure Applications

>> Cure Times

Minimum Cure Time to Test at 180 PSI

Size	60°- 100°F	40°- 60°F	0°- 40°F
½" to 1¼"	1 Hour	2 Hours	8 Hours
½" to 3"	2 Hours	4 Hours	16 Hours
4" to 8"	6 Hours	12 Hours	48 Hours
10" to 16"	24 Hours	48 Hours	8 Days

Cure times shown are sufficient to complete a hydrostatic test at 100 PSI with 60% humidity and cold water. Full cure may take significantly longer.

Cure times are a function of air temperature, water temperature, humidity and pipe size. Increase the cure time for more demanding conditions. For more specific information, contact the cement manufacturer.

>> Special Considerations

- Do NOT air test.
- See Charlotte Pipe and Foundry's Plastics Technical and Installation Manual for chemical compatibility.
- UV sensitivity.
- Do NOT install permanently in direct sunlight without painting with water-based latex paint, or covering with insulation.
- Teflon® tape should be used for 1-inch or smaller and paste-type, non-hardening thread sealant on 1¼ inch or larger.

Notices, Cautions and Warnings Please refer to www.charlottepipe.com for all applicable notices, cautions and warnings for this product group. You may also contact us at (800) 438-6091 for additional safety, installation or application information. **Notices:** N-2; N-3; N-4; N-5; N-6; N-7; N-8; N-9; N-10; N-11; N-12; N-14; N-15; N-17; N-19; N-22; N-27; N-32; N-34; N-38 **Cautions:** C-2, C-4, C-6, C-8 **Warnings:** W-2; W-3; W-4; W-5; W-6; W-9; W-12; W-13; W-14; W-15; W-17; W-18; W-21; W-22; W-23; W-24; W-26; W-28; W-29; W-35; W-37

PVC Schedule 80 Pipe & Fittings For Pressure Applications

Size	OD	Wall	Weight Per 100 ft. (lbs.)	Max Work PSI 73˚F (23˚C)	Skid Quantity 10 ft. pcs/skid	Skid Quantity 20 ft. pcs/skid
1/2"	0.840	0.147	20.4	850	600	344
3/4"	1.050	0.154	27.0	690	400	210
1"	1.315	0.179	41.0	630	260	177
1 1/4"	1.660	0.191	52.2	520	250	212
1 1/2"	1.900	0.200	66.8	470	—	165
2"	2.375	0.218	94.5	400	—	111
3"	3.500	0.300	194.2	370	—	48
4"	4.500	0.337	275.2	320	—	54
6"	6.625	0.432	541.5	280	—	26