

EVERTUFF INDUSTRIAL CPVC PIPING PRODUCTS

PRODUCT DESCRIPTION

EverTuff Industrial CPVC pipe is a cost-effective solution for many of today's industrial piping applications, including industrial services that involve hot corrosive fluid transfer. EverTuff Industrial CPVC pipe is available in Schedule 40 and Schedule 80, and conforms to the requirements of American Society of Testing and Materials (ASTM) F441. Ranging in size from 1/2 inch to 8 inches, Evertuff Industrial CPVC pipe has an upper working temperature of 200°F, 60°F above that of Type I Grade I PVC pipe.

This temperature advantage, along with other features of Evertuff Industrial CPVC pipe such as exceptional corrosion resistance, pressure bearing capabilities, low flame spread/smoke generation and lighter weight versus other piping materials, make it the piping solution of choice for many industrial applications. Evertuff CPVC piping products are independently tested by the NSF International to ensure that they meet requirements for potable water applications.

DIMENSIONS — PIPE

CPVC Schedule 40 and Schedule 80 pipe shall be manufactured in accordance to the requirements of ASTM-F441 for physical dimensions and tolerances. Each production run of pipe manufactured in compliance to this standard shall also meet the test requirements for materials, workmanship, burst pressure, flattening and extrusion quality defined in ASTM-F441.

EverTUFF CPVC Schedule 40

Nom. Dia. Inches/MM	Actual Outside Dia. Inches/MM	Average I.D.	Min. Wall	Nominal Wt./Ft.	Max W.P.* psi
1/2	.840	.608	.109	.180	600
3/4	1.050	.810	.113	.239	480
1	1.315	1.033	.133	.352	450
1-1/4	1.660	1.364	.140	.475	370
1-1/2	1.900	1.592	.145	.568	330
2	2.375	2.049	.154	.761	280
2-1/2	2.875	2.445	.203	1.201	300
3	3.500	3.042	.216	1.572	260
4	4.500	3.998	.237	2.239	220
6	6.625	6.031	.280	3.945	180
8	8.625	7.943	.322	5.958	160

EverTUFF CPVC Schedule 80

Nom. Dia. Inches/MM	Actual Outside Dia. Inches/MM	Average I.D.	Min. Wall	Nominal Wt./Ft.	Max W.P.* psi
1/2	.840	.528	.147	.225	850
3/4	1.050	.724	.154	.305	690
1	1.315	.935	.179	.449	630
1-1/4	1.660	1.256	.191	.618	520
1-1/2	1.900	1.476	.200	.751	470
2	2.375	1.913	.218	1.040	400
2-1/2	2.875	2.289	.276	1.584	420
3	3.500	2.864	.300	2.124	370
4	4.500	3.786	.337	3.105	320
6	6.625	5.709	.432	5.929	280
8	8.625	7.943	.322	5.958	250

*At Ambient 73.4°F Temperature

! WARNING

Always depressurize and drain system before disassembly. Failure to do so could result in serious personal injury, property damage, joint leakage or joint separation.

TEMPERATURE DE-RATING

The following temperature de-rating factors are to be applied to the listed working pressures when operating at elevated temperatures. Multiply the working pressure rating of the selected pipe at 73°F by the appropriate de-rating factor to determine the maximum working pressure rating of the pipe at the elevated temperature chosen.

<u>Operating Temperature</u> (°F)	<u>Temperature De-Rating</u> Factor
73 to 80	1.00
90	0.91
100	0.82
110	0.72
120	0.65
130	0.57
140	0.50
150	0.42
160	0.40
170	0.29
180	0.25
200	0.20

FLOW

CPVC MATERIAL SPECIFICATION

All EverTuff CPVC Schedule 40 and Schedule 80 pipe shall be manufactured from a Type IV Grade I CPVC compound with a Cell Classification of 23447 per ASTM-D1784. The pipe shall be manufactured in strict compliance to ASTM-F441, consistently meeting the quality assurance test requirements of this standard with regard to material, workmanship, burst pressure, flattening and extrusion quality. This compound shall be light gray in color, and shall be approved by the NSF for use with potable water. CPVC material used shall be compounded as provided by Coastline Plastics, LLC. The pipe shall be produced in the United States of America, and after production shall be stored indoors or under cover at the manufacturing site until shipped. All pipe shall be manufactured by Coastline Plastics, LLC.

JOINTS

Solvent-cemented joints should be utilized when working at or near maximum temperatures. When threading CPVC pipe, Coastline Plastics, LLC recommends using only

Schedule 80 for services with temperatures up to 150°F. Use flanged joints or unions where disassembly is necessary at elevated temperatures.

MARKING

Product marking shall meet the requirements of ASTM-F441 and shall include the manufacturer's name, the nominal pipe size, the material designation code, the pipe schedule and pressure rating in psi for water at 73°F and 180°F, the ASTM designation F441, and the independent laboratory's seal of approval for potable water usage.

APPLICATION

Corrosion-resistant pressure pipe is available in iron pipe sizes (IPS) 1/2 inch through 8 inches for use at temperatures up to and including 200°F. Pressure rating (160 psi to 850 psi) varies with schedule, pipe size and temperature. Pipe is generally resistant to most acids, bases, salts, aliphatic solutions, oxidants and halogens. Chemical resistance data is available and should be referenced for proper material selection. Pipe exhibits excellent physical properties and flammability characteristics. Typical applications include: chemical processing, plating, high purity applications, hot and cold potable water systems, water and wastewater treatment, and other industrial applications involving hot corrosive fluid transfer. Specific questions regarding your applications should be referred to Coastline Plastics, LLC.

SCOPE

This specification outlines minimum manufacturing requirements for CPVC Schedules 40 and 80 IPS pressure pipe. This pipe is intended for use in industrial systems where the fluid conveyed does not exceed 200°F. This pipe meets and/or exceeds the industry standards and requirements as set forth by the ASTM and the NSF.

STORAGE

EverTUFF CPVC Pipe should be covered with a non-transparent material when stored outside.

All information contained herein is given in good faith without guarantee of completeness or accuracy. If additional information is needed, please contact Coastline Plastics, LLC.