PVC PIPE RESOURCE REPORT

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Pipe Resource Organization
of the Vinyl Institute

Technical Information Available

Information on the use of PVC pipe in water distribution, waste water handling and plumbing systems is available from the following organizations. The publications listed are subject to availability and there may be a charge for some items. To order these publications, contact each organization directly.

From the American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103 (215) 299-5400:

Standard Practice for Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings, Designation: D 2855.

Standard Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core, Designation: F 891.

Standard Specification for Corrugated Poly (Vinyl Chloride) Tubing and Compatible Fittings, Designation: F 800.

Standard Specification for Poly (Vinyl Choride) (PVC) Corrugated Sewer Pipe With a Smooth Interior and Fittings, Designation: F 949.

Standard Specification for Poly (Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings, Designation: F 679.

Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings, Designation: D 2665.

Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40, Designation: D 2466.

Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120, Designation: D 1785.

Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series), Designation: D 2441.

Standard Specification for Poly (Vinyl Chloride) (PVC) Ribbed Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter, Designation: F 794.

Standard Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings, Designation: D 2729.

Standard Specification for Socket-Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, Designation: D 2467.

Standard Specification for Smooth-Wall Poly (Vinyl Chloride) (PVC) Plastic Underdrain Systems for Highway, Airport, and Similar Drainage, Designation: F 758.

Standard Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, Designation: D 2464.

Standard Specification for 3.25-In. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings, Designation: D 2949.

Standard Specification for Type PS-46 Poly (Vinyl Chloride) (PVC) Plastic Gravity Flow Sewer Pipe and Fittings, Designation: F 789.

Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings, Designation: D 3034.

From the American Water Works Association (AWWA), 6666 West Quincy Avenue, Denver, CO 80235. (303) 794-7711:

AWWA Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4 Inch Through 12 Inch, For Water Distribution, published in 1989. Describes ANSI/AWWA standard C900-89.

AWWA Standard for Polyvinyl Chloride (PVC) Water Transmission Pipe, Nominal Diameters 14 Inches Through 36 Inches, published in 1988. Describes ANSI/AWWA standard C905-88.

CTL029408

Recommended Method for Calculation of Nominal Weight of Plastic Pipe, Report number TR7.

Recommended Practice for Making Solvent Cemented Joints with Polyvinyl Chloride (PVC) Pipe and Fittings, Report number TR10.

Recommended Service (Design) Factors for Pressure Applications of Thermoplastic Pipe Materials, Report number TR9.

Resistance of Thermoplastic Piping Materials to Micro- and Macro-Biological Attack, Report number TR11.

Sealants for Polyvinyl Chloride (PVC) Plastic Piping, Report number TN2.

Standards for Plastic Piping (A listing of standards published by all North American standards organizations.), Report number TR5.

Suggested Temperature Limits for Thermoplastic Piping in Non-Pressure Applications, Report number TN11.

Thermal Expansion and Contraction of Plastic Pipe, Report number TR21.

Water Flow Characteristics of Thermoplastic Pipe, Report number TR14.

Weatherability of Thermoplastic Piping, Report number TR18.

From the Plastic Pipe and Fittings Association (PPFA), 800 Roosevelt Road, Building C, Suite 20, Glen Ellyn, IL 60137-5833. (708) 858-6540:

Crush Strength and Flexibility of Thermoplastic Piping, Bulletin number 1-80.

The Growing World of Plastics Piping: A Comprehensive Listing of Common Applications of Plastic Plumbing Systems Covered by National Consensus Standards.

Hydrostatic Strengths and Suggested Pressure Ratings for CPVC 4120 at Various Temperatures, Bulletin number 2-80.

Indent Marking, Bulletin number 5-80.

Noise in Piping, Bulletin number 7-82.

Plastic Pipe in Fire Resistive Construction, published July 1985.

Plumbers' Installation Handbook.

Position on the Use of Solvent Cements for Transition Joints between ABS and PVC Nonpressure Piping Components, Bulletin number 12-85.

Pressure Rating of PVC Plastic Piping for Water at Elevated Temperatures, Bulletin number 3-80.

Thawing Thermoplastic Water Pipes, Bulletin number 10-83.

Thermoplastic Piping in Residential Fire Sprinkler Systems, Bulletin number 9-83.

Use of Banded Flexible Connectors in DWV Systems as a Transition Between Iron Spigot and Plastic Spigots, Bulletin number 11-84.

Note: PPFA also offers audio/visual programs on the following topics: Joining and Adapting Plastic Pipe, Installing Plastic Sewer Pipe, Installing Plastic DWV Piping.

From the Vinyl Institute, 155 Route 46 West, Wayne Interchange Plaza II, Wayne, N.J. 07470. (201) 890-9299.

PVC Drain, Waste and Vent Pipe vs. Cast Iron Soil Pipe: A Cost/Benefit Comparison (executive summary), 1990.

PVC vs. Copper Domestic Hot and Cold Water Systems: A Cost/Benefit Comparison (executive summary), 1990.

PVC Electrical Non-Metallic Tubing vs. Electrical Metallic Tubing: A Cost/Benefit Comparison (executive summary), 1990.

PVC Pipe — Design and Installation, manual of water supply practices published in 1980. Publication number AWWA No. M23.

From Uni-Bell PVC Pipe Association, 2655 Villa Creek Drive, Suite 155, Dallas, TX 75234. (214) 243-3902:

Information related to water distribution systems:

External Corrosion of Underground Water Distribution Piping Systems, UNI-PUB-7 (14 pages).

Grounding, Locating and Thawing Procedures for Water Mains and Services, UNI-TR-2 (10 pages).

PVC Pipe — Technology Serving the Water Industry, UNI-PUB-3 (15 pages).

Recommended Practice for the Direct Tapping of Polyvinyl Chloride (PVC) Pressure Water Pipe, UNI-B-8 (4 pages).

Recommended Practice for the Installation of Polyvinyl Chloride (PVC) Pressure Pipe, UNI-B-3 (7 pages).

Recommended Standard Performance Specifications for Joint Restraint Devices for Use with Polyvinyl Chloride (PVC) Pipe, UNI-B-13 (4 pages).

Recommended Standard Specification for Fiberglass Overwrapped Polyvinyl Chloride (PVC) Pressure Fittings, UNI-B-14 (12 pages).

Recommended Standard Specification for Polyvinyl Chloride (PVC) Pressure Fittings, UNI-B-12 (12 pages).

Recommended Standard Specification for Polyvinyl Chloride (PVC) Water Transmission Pipe (Nominal Diameters 14-36 Inches), UNI-B-11 (20 pages).

Tapping Guide for PVC Pressure Pipe, UNI-PUB-8 (20 pages).

Information related to waste water handling:

Deflection: The Pipe/Soil Mechanism, UNI-TR-1 (34 pages).

Installation Guide for PVC Sewer Pipe, UNI-PUB-6 (28 pages).

Maintenance of PVC Sewer Pipe, UNI-TR-3 (14 pages).

Recommended Performance Specification for Polyvinyl Chloride (PVC) Profile Wall Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter (Nominal Pipe Sizes 4-48 inches), UNI-B-9 (8 pages).

Recommended Practice for the Installation of Polyvinyl Chloride (PVC) Sewer Pipe, UNI-B-5 (16 pages).

Recommended Practice for Low-Pressure Air Testing of Installed Sewer Pipe, UNI-B-6 (14 pages).

Recommended Standard Specification for Type PS46 Polyvinyl Chloride (PVC) Plastic Gravity Sewer Pipe and Fittings (Based on Performance Requirements) (Nominal Diameters 4-15 inches), UNI-B-10 (4 pages).

Additional information:

The Effects of Ultraviolet Aging on PVC Pipe, UNI-TR-5 (12 pages).

Handbook of PVC Pipe: Design and Constuction, second edition (377 pages).

Recommended Standard Specification for Thermoplastic Pipe Joints, Pressure and Non-Pressure Applications, UNI-B-1 (4 pages).

Technology Serving the Water and Sewer Industries, UNI-PUB-1 (4 pages).

From the Plastics Pipe Institute (PPI), 155 Route 46 West, Wayne Interchange Plaza II, Wayne, NJ 07470. (201) 812-9076

Policies and Procedures for Developing Recommended Hydrostatic Design Stresses for Thermoplastic Pipe Materials, Report number TR3.

Poly (Vinyl Chloride) (PVC) Plastic Piping Design and Installation, Report number TR13.

Recommended Hydrostatic Strengths and Design Stresses for Thermoplastic Pipe and Fittings Compounds, Report number TR4.