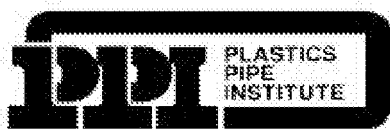


Standards For Plastics Piping

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STANDARDS FOR PLASTICS PIPING

Foreword

This technical report has been prepared to provide producers, users, engineers, code officials, installers and others interested in plastics piping with an up-to-date list of standards covering high quality plastic piping components. Standards for the purpose of this report include component specifications, methods of test and recommended practices for pipe, tubes, conduits, fittings and related products made of plastics. Although the Plastics Pipe Institute is concerned only with thermoplastics, standards for thermoset plastics are also included.

The only piping products and regulations listed in this publication are those of national standing. State, regional and local plumbing and other piping codes—many of which are adoptions in total, or in part, of national model codes—are not covered.

It should be noted that most of these product standards (specifications) include product quality control requirement values that usually cannot be used for engineering design criteria. Such criteria are covered in recommended practices, codes, model codes, installation procedures, separate reports and the appendices of some of these product standards. Those standards that contain information on engineering design criteria and/or the closely related installation procedures are herein identified.

Before selecting the type of plastic and the related standards for an application, the design criteria, limitations, and installation techniques must be considered to achieve satisfactory service. Also, any applicable codes must be considered. Information on these aspects may be obtained from the pertinent codes; the standards listed herein, the publications or staff of the Plastics Pipe Institute and of other organizations (identified in this report), or from the manufacturers of plastic pipe components and plastic materials.

As the plastics industry has grown, other trade organizations have been formed. Their scopes are listed at the end of this report to enable you to direct your inquiries to the appropriate organization.

The Plastics Pipe Institute, Inc., as a service to the industry has prepared this report. The information in this report is offered in good faith and believed to be accurate at the time of its preparation, but is offered without any warranty, express or implied. PPI does not endorse the proprietary products or processes of any manufacturer and assumes no responsibility for compliance with applicable laws and regulations.

This Technical Report was first issued in December 1979. This revision was prepared in January 2001.

STANDARDS FOR PLASTICS PIPING

Introduction

This publication contains listings of standards for various types of plastics piping as promulgated by numerous standards-making organizations, such as the American Society for Testing and Materials (ASTM), the American Association of State Highway and Transportation Officials (AASHTO), various U.S. Government agencies and so on.

For the convenience of the reader, this publication has been arranged into three sections. Section I and II are devoted to ASTM standards, which are published in Volume 08.04 of the Annual Book of ASTM Standards.

Section I categorizes the ASTM standards into one of eight listings:

- Plastic Pipe Specifications
- Plastic Fittings Specifications
- Plastic Pipe Joints and Joining Materials
- Systems Specifications (both pipe and fittings)
- Methods of Test
- Recommended Practices
- Terminology
- Plastic Pipe and Fittings Materials

Section II categorizes the ASTM Standards into listings such as:

- Piping by Type of Material (PE, PVC, etc.)
- Piping Systems by Type of Application (DWV, gas, sewer, water, etc.)
- Pipe Installation and Components (fittings, joints, seals, solvent cement and primers, underground installation)
- General Test Methods

Section III contains listings of standards promulgated by organizations other than ASTM (with their addresses) as well as sources of further information.

- American Association of State Highway and Transportation Officials (AASHTO)
- American National Standards Institute (ANSI)
- American Petroleum Institute (API)
- American Society of Agricultural Engineers (ASAE)
- American Water Works Association (AWWA)
- Canadian Government Standards Board (CGSB)
- Canadian Standards Association (CSA)
- U.S. Department of Agriculture – Soil Conservation Service (SCS)
- U.S. Department of Transportation

U.S. Federal Specifications
U.S. Department of Housing & Urban Development
International Association of Plumbing & Mechanical Officials (IAPMO)
International Standards Organization (ISO)
National Electrical Manufacturer's Association (NEMA)
National Fire Protection Association (NFPA)

National Sanitation Foundation (NSF)
Underwriters Laboratories (UL)
UniBell PVC Pipe Association (UniBell)
Building Officials and Code Administrators International (BOCA)
Council of American Building Officials (CABO)
International Conference of Building Officials (ICBO)
National Association of Plumbing-Heating-Cooling Contractors (PHCC)
Southern Building Code Congress International (SBCCI)
Plastic Pipe and Fittings Association (PPFA)
The Vinyl Institute (VI)

SECTION I

ASTM American Society for Testing and Materials
 100 Barr Harbor Drive
 West Conshohocken, PA 19428
 (610) 832-9500
 Internet: www.astm.org

Plastic Pipe Specifications

- D 1527 Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80
- D 1694 Threads 60° (Stub) for "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
- D 1785 Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedule 40, 80, and 120
- D 2104 Polyethylene (PE) Plastic Pipe, Schedule 40
- D 2239 Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Inside Diameter
- D 2241 Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
- D 2282 Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR)
- D 2310 Classification for Machine-Made Reinforced Thermosetting-Resin Pipe
- D 2447 Polyethylene (PE) Plastic Pipe, Schedules 40 and 80 Based on Outside Diameter
- D 2513 Thermoplastic Gas Pressure Piping Systems
- D 2662 Polybutylene (PB) Plastic Pipe (SDR-PR) Based on Controlled Inside Diameter
- D 2666 Polybutylene (PB) Plastic Tubing
- D 2737 Polyethylene (PE) Plastic Tubing
- D 2996 Filament-Wound "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
- D 2997 Centrifugally Cast Reinforced Thermosetting-Resin Pipe
- D 3000 Polybutylene (PB) Plastic Pipe (SDR-PR) Based on Controlled Outside Diameter
- D 3035 Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Outside Diameter

- D 3262 "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Sewer Pipe
- D 3517 "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Pressure Pipe
- F 405 Corrugated Polyethylene (PE) Tubing and Fittings
- F 441 Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
- F 442 Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Underdrain Systems for Highway, Airport and Similar Drainage
- F 714 Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter
- F 809 Large Diameter Polybutylene Plastic Pipe
- F 809M Large Diameter Polybutylene Plastic Pipe (Metric)
- F 810 Smoothwall Polyethylene (PE) Pipe for Use in Drainage and Waste Disposal Absorption Fields
- F 876 Crosslinked Polyethylene (PEX) Tubing
- F 878 Polybutylene (PB) Thermoplastic Thin-Wall Drip Irrigation Tubing
- F 891 Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core
- F 892 Polyethylene (PE) Corrugated Pipe with a Smooth Interior and Fittings
- F 894 Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe
- F 949 Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings
- F 1281 Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe
- F 1282 Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe
- F 1335 Pressure-Rated Composite Pipe and Fittings for Elevated Temperature Service
- F 1483 Oriented Poly (Vinyl) Chloride PVCO, Pressure Pipe
- F 1488 Coextruded Composite Pipe
- F 1499 Coextruded Composite Drain, Waste and Vent Pipe (DWV)
- F 1533 Specification for Deformed Polyethylene (PE) Liner

Plastic Fittings Specifications

- D 2464 Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings Schedule 80
- D 2466 Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
- D 2467 Socket-Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
- D 2468 Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe Fittings, Schedule 40
- D 2609 Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe

- D 2683 Socket-Type Polyethylene (PE) Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing
- D 3261 Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing
- D 3311 Drain, Waste and Vent (DWV) Plastic Fittings Patterns
- D 3840 Fiberglass (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe Fittings for Non-Pressure Applications
- F 409 Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
- F 437 Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- F 438 Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
- F 439 Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- F 845 Plastic Insert Fittings for Polybutylene (PB) Tubing
- F 1055 Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing
- F 1336 Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings
- F 1380 Metal Insert Fittings for Polybutylene (PB) Tubing
- F 1733 Butt Heat Fusion Polyamide (PA) Plastic Fittings for Polyamide (PA) Plastic Pipe and Tubing
- F 1807 Standard Specification for Metal Insert Fittings utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing

Plastic Pipe Joints and Joining Materials

- D 2235 Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
- D 2564 Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings
- D 3138 Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components
- D 3139 Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
- D 3212 Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
- D 4161 "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe Joints Using Flexible Elastomeric Seals
- D2672 Joints for IPS Piping Using Solvent Cement
- D3122 Solvent Cement for Styrene-Rubber (SR) Plastic Pipe and Fittings
- F 477 Elastomeric Seals (Gaskets) for Joining Plastic Pipe
- F 493 Solvent Cement for Chlorinated Polyvinyl Chloride (CPVC) Plastic Pipe and Fittings
- F 545 PVC and ABS Injected Solvent Cemented Plastic Pipe Joints
- F 656 Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings

- F 913 Thermoplastic Elastomeric Seals (Gaskets) for Joining Plastic Pipe
- F 1056 Socket Fusion Tools for Use in Socket Fusion Joining Polyethylene Pipe or Tubing and Fittings

Systems Specifications (Both Pipe and Fittings)

- D 2513 Thermoplastic Gas Pressure Piping Systems
- D 2517 Reinforced Epoxy resin Gas Pressure Piping Systems
- D 2661 Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe
- D 2665 Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste and Vent Pipe and Fittings
- D 2680 Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping
- D 2729 Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
- D 2750 Acrylonitrile-Butadiene-Styrene (ABS) Plastics Utilities Conduit and Fittings
- D 2751 Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings
- D 2846 Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems
- D 2852 Specification for Styrene-Rubber Plastic Drain and Building Sewer Pipe and Fittings
- D 2949 3.25-In. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
- D 3034 Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
- D 3309 Polybutylene (PB) Plastic Hot- and Cold-Water Distribution Systems
- D 3754 "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Sewer and Industrial Pressure Pipe
- F 423 Polytetrafluoroethylene (PTFE) Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges
- F 480 Thermoplastic Water Well Casing Pipe and Couplings (SDR) Made in Standard Dimension Ratios (SDR)
- F 491 Poly (Vinylidene Fluoride) (PVDF) Plastic-Lined Ferrous Metal Pipe and Fittings
- F 492 Propylene and Polypropylene (PP) Plastic-Lined Ferrous Metal Pipe and Fittings
- F 512 Specification for Smooth-Wall Poly Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation
- F 546 Specification for Perfluoro (Ethylene-Propylene) Copolymer (FEP) Plastic-Lined Ferrous Metal Pipe and Fittings
- F 599 Specification for Poly (Vinylidene) (PVDC) Plastic-Lined Ferrous Metal Pipe and Fittings
- F 667 Large Diameter Corrugated Polyethylene Tubing and Fittings
- F 679 Poly (Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings

- F 714 Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter
- F 771 Polyethylene (PE) Thermoplastic High-Pressure Irrigation Pipeline Systems
- F 781 Perfluoro (Alkoxyalkane) Copolymer (PFA) Plastic-Lined Ferrous Metal Pipe and Fittings
- F 789 Types PS-46 Poly (Vinyl Chloride) (PVC) Plastic Gravity Flow Sewer Pipe and Fittings
- F 794 Poly (Vinyl Chloride) (PVC) Large Diameter Ribbed Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter
- F 877 Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems
- F 1412 Polyolefin Pipe and Fittings for Corrosive Waste Drainage Systems
- F 1498 Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings

Methods of Test

- D 1598 Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
- D 1599 Short-Time Rupture Strength of Plastic Pipe, Tubing and Fittings
- D 2105 Longitudinal Tensile Properties of Reinforced Thermosetting Plastic Pipe and Tube
- D 2143 Cyclic Pressure Strength of Reinforced, Thermosetting Plastic Pipe
- D 2152 Degree of Fusion of Extruded Poly (Vinyl Chloride) Pipe and Molded Fittings by Acetone Immersion
- D 2290 Apparent Tensile Strength of Ring or Tubular Plastics and Reinforced Plastics by Split Disk Method
- D 2412 Determination of Characteristics of Plastic Pipe by Parallel-Plate Loading
- D 2444 Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)
- D 2837 Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials
- D 2924 External Pressure Resistance of Reinforced Thermosetting-Resin Plastic Pipe
- D 2925 Beam Deflection of Reinforced Thermosetting Plastic Pipe Under Full Bore Flow
- D 2992 Obtaining Hydrostatic or Pressure Design Basis for "Fiberglass"(Glass-Fiber-Reinforced Thermosetting-Resin) Pipe and Fittings
- D 3681 Chemical Resistance of Reinforced Thermosetting Resin Pipe in a Deflected Condition
- D2122 Determining Dimensions of Thermoplastic Pipe and Fittings
- F 610 Practice for Estimating the Quality of Molded PVC Plastic Pipe Fittings by the Heat Reversion Technique
- F 699 Accelerated Conditioning of Polybutylene Pipe and Tubing for Subsequent Quality Control Testing

- F 948 Tim-to-Failure of Plastic Piping Systems and Components under Constant Internal Pressure with Flow
- F 1057 Estimating the Quality of Extruded Poly (Vinyl Chloride) (PVC) Pipe by the Heat Reversion Technique
- F 1248 Determination of Environmental Stress Crack Resistance (ESCR) of Polyethylene Pipe
- F 1365 Water Infiltration Resistance of Plastic Underground Joints Which Use Flexible Elastomeric Seals
- F 1417 Installation Acceptance of Plastic Gravity Sewer Lines Using Low-Pressure Air
- F 1429 Assembly Force of Plastic Underground Conduit Joints that use Flexible Elastomeric Seals Located in the Bell
- F 1473 Notch Tensile Test to Measure the Resistance to Slow Crack Growth of Polyethylene Pipes and Resins
- F 1474 Slow Crack Growth Resistance of Notched Polyethylene Plastic Pipe
- F 1588 Constant Tensile Load Joint Test (CTLJT)
- F 1589 Determination of the Critical Pressure for Rapid Crack Propagation in Plastic Pipe

Recommended Practices

- D 2321 Underground Installation of Flexible Thermoplastic Sewer Pipe
- D 2488 Description and Identification of Soils (Visual-Manual Procedure)
- D 2657 Heat-Joining Polyolefin Pipe and Fittings
- D 2774 Underground Installation of Thermoplastic Pressure Piping
- D 2855 Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings
- D 3140 Flaring Polyolefin Pipe and Tubing
- D 3567 Determining Dimensions of Reinforced Thermosetting Resin Pipe (RTRP) and Fittings
- D 3839 Underground Installation of Flexible Reinforced Thermosetting Resin Pipe and Reinforced Plastic Mortar Pipe
- F 402 Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings
- F 449 Subsurface Installation of Corrugated Thermoplastic Tubing for Agricultural Drainage or Water Table Control
- F 481 Installation of Thermoplastic Pipe and Corrugated Tubing in Septic Tank Leach Fields
- F 585 Insertion of Flexible Polyethylene Pipe into Existing Sewers
- F 645 Selection, Design and Installation of Thermoplastic Water Pressure Piping Systems
- F 689 Determination of the Temperature of Above-Ground Plastic Gas Pressure Pipe within Metallic Casings
- F 690 Underground Installation of Thermoplastic Pressure Piping Irrigation Systems
- F 905 Qualification of Polyethylene Saddle Fusion Joints

- F 1025 Selection and Use of Full-Encirclement-Type Band Clamps for Reinforcement or Repair of Punctures or Holes in Polyethylene Gas Pressure Pipe
- F 1041 Squeeze-Off of Polyolefin Gas Pressure Pipe and Tubing
- F 1176 Design and Installation of Thermoplastic Irrigation Systems with Maximum Working Pressure of 63 psi
- F 1216 Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
- F 1290 Electrofusion Joining Polyolefin Pipe and Fittings
- F 1668 Construction Procedures for Buried Plastic Pipe
- F 1734 Qualification of a Combination of Squeeze Tool, Pipe, and Squeeze-Off Procedures to Avoid Long-Term Damage in Polyethylene (PE) Gas Pipe

Terminology

- D 1600 Abbreviations of Terms Relating to Plastics
- D 2749 Standard Symbols for Dimensions of Plastic Pipe Fittings
- D 883 Definitions of Terms Relating to Plastics
- F 412 Definitions of Terms Relating to Plastic Piping Systems

Plastic Fittings Materials

- D 1784 Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
- D 2581 Polybutylene (PB) Plastics Molding and Extrusion Materials
- D 3350 Polyethylene Plastics Pipe and Fittings Materials
- D 3915 Poly (Vinyl Chloride) (PVC) and Related Plastic Pipe and Fittings Compounds
- D 3965 Rigid Acrylonitrile-Butadiene-Styrene (ABS) Compounds for Pipe and Fittings
- D 4066 Nylon Injection and Extrusion Materials (PA)
- D 4396 Rigid Poly (Vinyl Chloride) (PVC) and Related Plastic Compounds for Non-Pressure Piping Products
- D 4976 Standard Specification for Polyethylene Plastics Molding and Extrusion Materials
- F 876 Standard Specification for PEX Tubing

SECTION II

A. PLASTIC PIPE MATERIALS CLASSIFICATIONS

Materials

Specification for:

- D 1784 Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
- D 2581 Polybutylene (PB) Plastics Molding and Extrusion Materials
- D 3350 Polyethylene Plastics Pipe and Fittings Materials
- D 3915 Poly (Vinyl Chloride) (PVC) and Related Plastic Pipe and Fittings Compounds
- D 3965 Rigid Acrylonitrile-Butadiene-Styrene (ABS) Compounds for Pipe and Fittings
- D 4066 Nylon Injection and Extrusion Materials (PA)
- D 4396 Rigid Poly (Vinyl Chloride) (PVC) and Related Plastic Compounds for Non-Pressure Piping Products
- D 4976 Standard Specification for Polyethylene Plastics Molding and Extrusion Materials

Type of Plastics Piping

Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings

Specifications for:

- D 1527 Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80
- D 2235 Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
- D 2282 Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR)
- D 2468 Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe Fittings, Schedule 40
- D 2661 Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe
- D 2680 Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping
- D 2750 Acrylonitrile-Butadiene-Styrene (ABS) Plastics Utilities Conduit and Fittings
- D 2751 Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings
- D 3138 Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components
- D 3965 Rigid Acrylonitrile-Butadiene-Styrene (ABS) Compounds for Pipe and Fittings

- F 409 Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
- F 628 Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste and Vent Pipe with a Cellular Core

Test Method for:

- D 2444 Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)

Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Tubing, and Fittings

Specifications for:

- D 2846 Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot-and Cold-Water Distribution Systems
- F 1336 Poly (Vinyl Chloride) (PVC) Gasketed Sewer Fittings
- F 437 Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- F 438 Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
- F 439 Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- F 441 Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 and 80
- F 442 Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)
- F 493 Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

Polyethylene Plastic Pipe, Tubing, and Fittings

Specifications for:

- D 2104 Polyethylene (PE) Plastic Pipe, Schedule 40
- D 2239 Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter
- D 2447 Polyethylene (PE) Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter
- D 2609 Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
- D 2683 Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing
- D 2737 Polyethylene (PE) Plastic Tubing