PVC is the most frequently specified of all thermoplastic piping materials. It has been used successfully for over 60 years. PVC is characterized by distinctive physical properties, and is resistant to corrosion and chemical attack by acids, alkalis, salt solutions and many other chemicals. It is attacked, however, by polar solvents such as ketones and aromatics.

Of the various types and grades of PVC used in plastic piping, Type 1, Grade 1 PVC (Cell Classification 12454) conforming to ASTM D1784, is the most common. The maximum service temperature for PVC is 140°F (60°C). PVC for drainage applications is also capable of handling near boiling temperatures for intermittent flow conditions. PVC DWV fittings should be used for non-pressure drain, waste and vent applications.
IPEX PVC DWV

Handling & Installation Procedures

Installation, handling and testing procedures shall comply with the latest edition of the IPEX Volume 1: Vinyl Process Piping Technical Manual and All Local Plumbing, Mechanical and Fire Codes.

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**WARNING**

- NEVER use compressed air or gas in PVC/CPVC/PP/PVDF pipe and fittings.
- NEVER test PVC/CPVC/PP/PVDF pipe and fittings with compressed air or gas, or air-over-water boosters.
- ONLY use PVC/CPVC/PP/PVDF pipe for water and approved chemicals.
Specifications

IPEX PVC DWV

Schedule 40 Pipe & Fittings

Scope
This specification sheet covers the manufacturers’ requirements for PVC Schedule 40 IPS pipe and DWV fittings. The pipe and fittings meet or exceed all applicable ASTM, NSF and CSA standards.

PVC Materials
Rigid PVC (polyvinyl chloride) used in the extrusion of Schedule 40 pipe and fittings complies with the material requirements of ASTM D1784 (formerly Type 1, Grade 1) and has a cell classification of 12454. Raw material used in the extrusion shall contain the standard specified amounts of color pigment, stabilizers and other additives.

Dimensions
Physical dimensions and properties of PVC Schedule 40 pipe shall meet the requirements of ASTM D1785 and ASTM D2665 injection molded PVC DWV fittings shall conform to ASTM D2665.

Sample Specification
All PVC Schedule 40 pipe shall conform to ASTM D1785, ASTM D2665 and NSF 14. Molded DWV fittings shall conform to ASTM D2665. All molded fittings must be third party certified to NSF 14.

All PVC fittings shall be molded or fabricated from PVC compound compatible with the pipe material.
About the IPEX Group of Companies
As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world’s largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:
- Electrical systems
- Telecommunications and utility piping systems
- PVC, CPVC, PP, ABS, PEX, FR-PVDF and PE pipe and fittings (1/4" to 48")
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.