ASTM F442/F442M-09 Standard specification for chlorinated poly (vinyl chloride) (CPVC) plastic pipe (SDR-PR)

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Description

This specification covers chlorinated poly(vinyl chloride) (CPVC) pipes made in standard thermoplastic pipe dimension ratios and pressure rated for water. These pipes are intended for use in the distribution of pressurized liquids only, which are chemically compatible with the piping materials.

Established here are the criteria for classifying both CPVC plastic pipe materials and finished CPVC plastic pipe products, as well as the requirements and associated test methods for the material, workmanship, dimensions, sustained pressure, burst pressure, flattening resistance, and extrusion quality.

Scope

This specification covers chlorinated poly(vinyl chloride) (CPVC) pipe made in standard thermoplastic pipe dimension ratios and pressure rated for water (see Appendix). Included are criteria for classifying CPVC plastic pipe materials and CPVC plastic pipe, and requirements and test methods for materials, workmanship, dimensions, sustained pressure, burst pressure, flattening, and extrusion quality. Methods of marking are also given.

Note 1)The CPVC pipe covered by this specification was covered previously in Specification D 2241.

Note 2) The sustained and burst pressure test requirements and the pressure ratings in the Appendix are calculated from stress values obtained from tests made on pipe 2 in. (50 mm) and smaller. However, tests on larger pipe have shown these stress values to be valid.

The products covered by this specification are intended for use with the distribution of pressurized liquids only, which are chemically compatible with the piping materials. Due to inherent hazards associated with testing components and systems with compressed air or other compressed gases some manufacturers do not allow pneumatic testing of their products. Consult with specific product/component manufacturers for their specific testing procedures prior to pneumatic testing.

> Note 3) Pressurized (compressed) air or other compressed gases contain large amounts of stored energy which present serious saftey hazards should a system fail for any reason.

The text of this specification references notes, footnotes, and appendixes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the specification.

The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.Within the text, the SI units are shown in brackets.

The following safety hazards caveat pertains only to the test methods portion, Section 8, of this specification: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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