Designation: F 412 – 01a$^{\epsilon 1}$

An American National Standard

Standard Terminology Relating to Plastic Piping Systems[1]

This standard is issued under the fixed designation F 412; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

ϵ[1] NOTE—The terms **Hydrostatic Design Stress** and **Pressure Rating** were editorially updated in June 2002.

1. Scope

1.1 This terminology is a compilation of definitions of technical terms used in the plastic piping industry. Terms that are generally understood or adequately defined in other readily available sources are not included.

1.2 When a term is used in an ASTM document for which Committee F-17 is responsible it is included only when judged, after review, by Subcommittee F17.94 to be a generally usable term.

1.3 Definitions that are identical to those published by other ASTM committees or other standards organizations are identified with the committee number (for example, D-20) or with the abbreviation of the name of the organization (for example, IUPAC International Union of Pure and Applied Chemistry).

1.4 A definition is a single sentence with additional information included in notes.

2. Referenced Documents

2.1 *ASTM Standards:*

C 114 Test Methods for Chemical Analysis of Hydraulic Cement[2]

D 256 Test Methods for Impact Resistance of Plastics and Electrical Insulating Materials[3]

D 638 Test Method for Tensile Properties of Plastics[3]

D 648 Test Method for Deflection Temperature of Plastics Under Flexural Load[3]

D 747 Test Method for Apparent Bending Modulus of Plastics by Means of a Cantilever Beam[3]

D 790 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials[3]

D 882 Test Methods for Tensile Properties of Thin Plastic Sheeting[3]

D 1003 Test Method for Haze and Luminous Transmittance of Transparent Plastics[3]

D 1238 Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer[3]

D 1505 Test Method for Density of Plastics by the Density-Gradient Technique[3]

D 2444 Test Method for Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)[4]

D 2837 Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials[4]

2.2 *ISO Standards:*[5]

ISO 3 Preferred Numbers

ISO 497 Preferred Numbers

ISO R 161 Pipes of Plastics Materials for the Transport of Fluids (Outside Diameters and Nominal Pressures) Part I, Metric Series

ISO TR 9080 Thermolplastics Pipes for the Transport of Fluids-Methods of Extrapolation of Hydrostatic Stress Rupture Data to Determine the Long-Term Hydrostatic Strength of Thermoplastic Pipe Materials

2.3 *ANSI Standard:*[5]

Z17.1 ANSI Preferred Numbers

2.4 *PPI Standard:*[6]

PPI TR-4

3. Terminology

acceptance testing—testing performed on a product to determine whether or not an individual lot of the product conforms with specified requirements.

DISCUSSION—The number of requirements are usually fewer than for **qualification testing** (see definition).

acetal plastics, *n*—highly crystalline linear thermoplastic homopolymers or copolymers characterized by repeating oxymethylene units.

acrylonitrile-butadiene-styrene (ABS) pipe and fitting

[1] This terminology is under the jurisdiction of ASTM Committee F17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.94 on Terminology.

Current edition approved Dec 10, 2001. Published February 2002. Originally published as F 412 – 75b. Last previous edition F 412 – 01.

[2] *Annual Book of ASTM Standards,* Vol 04.01.

[3] *Annual Book of ASTM Standards,* Vol 08.01.

[4] *Annual Book of ASTM Standards,* Vol 08.04.

[5] Available from American National Standards Institute, 11 West 42nd St., 13th Floor, New York, NY 10036.

[6] Available from the Plastic Pipe Institute, 1825 Connecticut Ave., NW Suite 680 Washington, DC 20009

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