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Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastics Utilities Conduit and Fittings¹

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1. Scope

1.1 This specification covers the requirements for acrylonitrile-butadiene-styrene (ABS) plastic conduit produced by single extrusion or simultaneous multiple coextrusion and fittings used for communication and electrical wires and cables installed underground for public utilities. Installation procedures are given in the appendix.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are provided for information purposes only.

1.3 The following precautionary caveat pertains only to the test method portion, Section 9, of this specification: *This standard does not purport to address all of the safety problems, 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.*

2. Referenced Documents

2.1 ASTM Standards:

- D 618 Practice for Conditioning Plastics and Electrical Insulating Materials for Testing²
 - D 1598 Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure³
 - D 1600 Terminology for Abbreviated Terms Relating to Plastics^{2,3}
 - D 1788 Specification for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Plastics^{3,4}
 - D 2122 Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings³
 - D 2235 Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings³
 - D 2412 Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading³
 - D 2444 Test Method for Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)³
 - F 412 Terminology Relating to Plastic Piping Systems³
- 2.2 *Federal Standard:*

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)⁵

2.3 *Military Standard:*

MIL-STD-129 Marking for Shipment and Storage⁵

3. Terminology

3.1 Definitions are in accordance with Terminology F 412 and abbreviations are in accordance with Terminology D 1600, unless otherwise specified. The abbreviation for acrylonitrile-butadiene-styrene is ABS.

3.1.1 *acrylonitrile-butadiene-styrene (ABS) pipe and fittings plastics*—plastics containing polymers or blends of polymers, or both, in which the minimum butadiene content is 6 %, the minimum acrylonitrile content is 15 %, the minimum styrene or substituted styrene content, or both, is 15 %, and the maximum content of other monomers is 5 % and lubricants, stabilizers, and colorants.

4. Classification

4.1 This specification covers two types of plastic conduit for use by public utilities, designated as follows:

4.1.1 *Type I (also known as Type EB (Encased Burial))*, designed to be encased in concrete.

4.1.2 *Type II (also known as Type DB (Direct Burial))*, designed for installation without encasement in concrete.

4.2 Plastic conduit produced by simultaneous multiple coextrusion shall be identified "CoeX."

NOTE 1—Type I (EB) and Type II (DB) can be produced by single extrusion or simultaneous multiple coextrusion.

5. Requirements

5.1 *Materials*—The conduit and fittings shall be manufactured from a virgin ABS compound, having a minimum cell classification 2-2-2, and may contain lubricants, dyes, pigments, and stabilizers (maximum 3), and as defined in Specification D 1788 from a single raw material supplier. Clean reground material from the manufacturer's own pipe products may be used by the same manufacturer provided the end product meets the requirements of this specification.

NOTE 2—Fittings described in this specification are intended for use with either pipe classification.

5.2 *Workmanship*—The conduit shall be homogeneous throughout and free from visible cracks, holes, foreign

¹ This specification is under the jurisdiction of ASTM Committee F-17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.66 on Conduit.

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² *Annual Book of ASTM Standards*, Vol 08.01.

³ *Annual Book of ASTM Standards*, Vol 08.04.

⁴ *Annual Book of ASTM Standards*, Vol 08.02.

⁵ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.