



Designation: D6358 – 19^{ε1}

Standard Classification System and Basis for Specification for Poly (Phenylene Sulfide) (PPS) Injection Molding, Extrusion and Blow Molding Materials Using ISO Methods¹

This standard is issued under the fixed designation D6358; 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.

ε¹ NOTE—Editorially corrected Table PPS in July 2019.

1. Scope*

1.1 This classification system covers unfilled, reinforced filled, and impact modified materials suitable for injection molding, extrusion and blow molding using ISO methods. The system allows for the use of poly (phenylene sulfide) (PPS) plastic materials that are recycled, reconstituted recycled-regrind, recovered or reprocessed, or both, provided that the requirements as stated in this specification are met. It is the responsibility of the supplier and the buyer of recycled, reconstituted, recycled-regrind, recovered or reprocessed, or both, poly (phenylene sulfide) plastic materials to ensure compliance (see Guide [D7209](#)).

1.2 The properties included in this classification are those required to identify the compositions covered. It is possible that other requirements are necessary to identify particular characteristics important to specialized applications. The use of suffixes as shown in Section [5](#) is one way of specifying these requirements.

1.3 This classification system and subsequent line callout (specification) are intended to provide a means of calling out plastic materials used in the fabrication of end items or parts. It is not intended for the selection of materials. Material selection needs to be made by those having expertise in the plastic field after careful consideration of the design and the performance required of the part, the environment to which it will be exposed, the fabrication process to be employed, the costs involved, and the inherent properties of the material other than those covered by this classification.

1.4 The following precautionary caveat pertains only to the test method portion, Section [11](#), of this classification system: *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,*

health, and environmental practices and determine the applicability of regulatory limitations prior to use.

NOTE 1—This standard and ISO 28078 address the same subject matter, but differ in technical content.

NOTE 2—ASTM [D4067](#) for PPS uses ASTM test methods.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

[D618 Practice for Conditioning Plastics for Testing](#)

[D883 Terminology Relating to Plastics](#)

[D1600 Terminology for Abbreviated Terms Relating to Plastics](#)

[D3641 Practice for Injection Molding Test Specimens of Thermoplastic Molding and Extrusion Materials](#)

[D3892 Practice for Packaging/Packing of Plastics](#)

[D4000 Classification System for Specifying Plastic Materials](#)

[D4067 Classification System and Basis for Specification for Reinforced and Filled Poly\(Phenylene Sulfide\) \(PPS\) Injection Molding and Extrusion Materials Using ASTM Methods](#)

[D7209 Guide for Waste Reduction, Resource Recovery, and Use of Recycled Polymeric Materials and Products \(Withdrawn 2015\)](#)³

[E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications](#)

¹ This classification system is under the jurisdiction of ASTM Committee [D20](#) on Plastics and is the direct responsibility of Subcommittee [D20.15](#) on Thermoplastic Materials (Section D20.15.17).

Current edition approved April 1, 2019. Published May 2019. Originally approved in 1998. Last previous edition approved in 2011 as D6358 - 11. DOI: 10.1520/D6358-19E01.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

*A Summary of Changes section appears at the end of this standard