



Designation: D 2581 – 012

Standard Specification Classification System for Polybutylene (PB) Plastics Molding and Extrusion Materials¹

This standard is issued under the fixed designation D 2581; 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.

1. Scope*

1.1 This specification provides classification system covers polybutylene plastics materials suitable for molding and extrusion.

1.2 This classification system allows for the identification use of those polybutylene plastics molding plastic materials that can be recycled, reconstituted, and reground, provided the following conditions are met:

1.2.1 The requirements as stated in this classification system and other guideline pertaining to these materials are met, and

1.2.2 The material has not been modified in any way to alter its conformance to water contact regulations or other similar requirements.

1.3 The proportions of recycled, reconstituted, and regrind material used, as well as the manufacturer nature and the purchaser can agree on amount of any contaminant, cannot be practically covered in this classification system. It is the acceptability responsibility of the supplier and buyer of recycled, reconstituted, and regrind materials to ensure compliance.

1.4 The properties included in this classification system are those required to characterize and classify the specific product. Other properties may be necessary to identify particular characteristics important to specialized applications. These may be specified by using suffixes as given in Section 5. Properties shall be selected in such a manner that consistency of different lots or shipments is assured. The tests involved in this classification system are intended to provide information for identifying materials according to in accordance with types and categories. It is not the function of this classification system to provide specific engineering data for design purposes.

1.5 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 should 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 standard.

1.6 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

NOTE 1—ISO 8986 Parts 1 and 2 resembles this standard in title, but their content is significantly different.

1.7 The following safety hazards precautionary caveat pertains only to the test methods portion, Section 9, 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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

¹ This classification system is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.12 on Olefin Plastics. Current edition approved June 10, 2002. Published August 2001. Originally published as D 2581 – 67. Last previous edition D 2581 – 9601.