



Designation: **D7611/D7611M – 19 D7611/D7611M – 20**

Standard Practice for Coding Plastic Manufactured Articles for Resin Identification¹

This standard is issued under the fixed designation D7611/D7611M; 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 practice stipulates the types, names, and sizes of Codes for those material types specified in **Table 1**.

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

1.3 *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—There is no known ISO equivalent to this standard.

1.4 *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

<https://standards.iteh.ai/document/ASTM/D7611/D7611M-20>
[D3418 Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry](https://standards.iteh.ai/document/ASTM/D3418)

2.2 *ASTM Adjuncts:*

Adjunct to D7611/D7611M Standard Practice for Coding Plastic Manufactured Articles for Resin Identification³

3. Terminology

3.1 *Definitions:*

3.1.1 *Resin Identification Code (RIC Code)*—a molded, imprinted or raised symbol or wording that consists of an equilateral triangle, a Resin Identification Number, and an Abbreviated Term for polymeric material.

4. Significance and Use

4.1 Resin Identification Codes are used solely to identify the plastic resin used in a manufactured article. The intended manufactured articles include, but are not limited to, packaging.

4.1.1 **Fig. 1** and **Table 1** present the appropriate information on the way the RIC is to be incorporated onto the product and the available resin identification designations.

4.2 Resin Identification Codes are not “recycle codes.” The Resin Identification Code is, though, an aid to recycling. The use of a Resin Identification Code on a manufactured plastic article does not imply that the article is recycled or that there are systems in place to effectively process the article for reclamation or re-use. The term “recyclable” or other environmental claims shall not be placed in proximity to the Code.















¹ This practice is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.95 on Recycled Plastics. Current edition approved June 1, 2019/Jan. 1, 2020. Published June 2019/January 2020. Originally approved in 2010. Last previous edition approved in 2018 as D7611/D7611M – 18. DOI:10.1520/D7611_D7611M-19. DOI:10.1520/D7611_D7611M-20.

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 Available from ASTM International Headquarters. Order Adjunct No. [ADJD761114-EA](https://standards.iteh.ai/document/ASTM/ADJD761114-EA). Original adjunct produced in 2010. Adjunct last revised in 2014.

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

TABLE 1 Resin Identification Codes

Resin Identification Number	Resin	Resin Identification Code –Option A	Resin Identification Code –Option B
1	Poly (ethylene terephthalate)	 1 PETE	 01 PET
2	High density polyethylene	 2 HDPE	 02 PE-HD
3	Poly (vinyl chloride)	 3 V	 03 PVC
4	Low density polyethylene	 4 LDPE	 04 PE-LD
5	Polypropylene	 5 PP	 05 PP
6	Polystyrene	 6 PS	 06 PS
7	Other resins	 7 OTHER	 07 O

4.3 This practice is based upon the system developed in 1988 by the Society of the Plastics Industry, Inc (SPI). It is possible that some states or countries will have incorporated the original SPI practice into statute or regulation. In those situations, that statute or regulation takes precedence over this standard.