



ASTM D7611

STANDARD PRACTICE FOR CODING PLASTIC MANUFACTURED ARTICLES FOR RESIN IDENTIFICATION

The newly revised **ASTM D7611** standard advances the resin identification code system to meet the evolving needs of recycling stakeholders.



Diverse experts have come together in the open and transparent ASTM process to develop changes to D7611 that better align the RIC system with modern era requirements. The recent efforts of Committee D20.95 address several important technical issues that support the underlying focus of the Code and lay the groundwork for future improvements.

Melissa Hockstad,

Vice President of Science, Technology and Regulatory Affairs Society of the Plastics Industry

PROVIDING A ROBUST AND RELEVANT CODING SYSTEM... FOR TODAY AND TOMORROW

Serving the needs of manufacturers, recyclers and other stakeholders, **ASTM D7611-13, Practice for Coding Plastic Manufactured Articles for Resin Identification,** offers a valuable foundational tool for managing the end-of-life of plastics materials. ASTM D7611 encompasses the long-standing resin identification code (RIC) system originally developed by the Society of the Plastics Industry (SPI).

Since 2008, diverse technical and industry experts have worked together under the ASTM International umbrella to advance the RIC system to meet evolving societal requirements. Working as part of ASTM Committee D20.95 on Recycled Plastics, their efforts have yielded the most recent enhancements to D7611, further modernizing the RIC system.

FULFILLING THE NEED FOR RESIN IDENTIFICATION AND QUALITY CONTROL

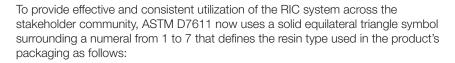
ASTM D7611 guides stakeholders in properly identifying manufactured articles made from various resin materials, ultimately helping to facilitate the desired recycling of these products. The standard delivers valuable utility to all members of the plastics recycling chain including:

- Consumers
- ▶ Manufacturers and Brand Owners
- ▶ Retailers
- ▶ Waste Collectors
- Municipal Recovery Facilities
- ▶ Plastics Reclaimers
- ▷ Others

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FACILITATING EFFECTIVE USE OF THE CODING SYSTEM

ASTM D7611-13 provides codes for the six most commonly found resin types, with a seventh category created for all other types. These categories include: 1) polyethylene terephthalate (PETE); 2) high density polyethylene (HDPE); polyvinyl chloride (V); 4) low density polyethylene (LDPE); 5) polypropylene (PP); 6) polystyrene (PS); and 7) other, including materials made with more than one resin from categories 1-6.



Resin	Resin Indentification Code-Option A	Resin Indentification Code-Option B
Poly(ethylene terephthalate)	1 PETE	01 PET
High density polyethylene	2 HDPE	02 PE-HE
Poly(vinyl chloride)	<u>3</u>	DVC PVC
Low density polyethylene	LDPE	04 PE-LD
Polypropylene	5 PP	05 PP
Polystyrene	6 PS	06 PS
Other resins	OTHER	07



ACCESSING THE LATEST RELEASE OF D7611

ASTM D7611-13 and its related adjunct are available for purchase online at www.astm.org or by contacting ASTM Customer Relations (phone: 877-909-ASTM; sales@astm.org).

The D7611 adjunct contains graphic representations of the Resin Identification Codes (RIC) as a molded, imprinted or raised symbol or wording and is available for download in PDF format.







Guiding the Plastics Recycling Value Chain

GET INVOLVED

All parties interested in contributing to potential revisions to ASTM D7611 are invited to participate in the activities of ASTM Committee D20.95 on Recycled Plastics. For additional information on membership in ASTM International, please visit **www.astm.org/JOIN.**

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