



Designation: D 5491 – 9803

Standard Classification for Recycled Post-Consumer Polyethylene Film Sources for Molding and Extrusion Materials¹

This standard is issued under the fixed designation D 5491; 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 document provides for the classification of post-consumer polyethylene (PE) film derived from specific sources. It also identifies characteristics that the user and supplier can agree upon in determining the acceptability of the film for recycling into molding and extrusion materials. It is neither the intent nor the purpose of this classification to specify the suitability of the recycled material for specific applications.

1.2 This classification provides that the source of the material be listed as an aid in identification. The separation by source also improves the usefulness of the material. Sources are post-consumer PE films from shrink wrap, dry cleaning film, merchandise bags, grocery sacks, stretch wrap, recycle bags, redemption bags, bubble packaging film, and commercial/industrial liners/bags and overwrap. Other post-consumer PE films may be added to this classification when such material streams are defined.

1.3 It is not the function of this classification to provide data for specific product design or process-performance purposes.

1.4 The supplier shall provide a written certification with each shipment stating that the material is derived from post-consumer PE film sources described within this classification.

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

NOTE 1—There are no equivalent ISO standards.

¹ This classification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.125 on Olefin Plastics Thermoplastic Materials.

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