



**Summary of Substantive Changes
between the 2011 and the 2014 editions of
ASTM D4101, “Polypropylene Injection and Extrusion Materials”**

Presented to the IAPMO Standards Review Committee on December 8, 2014

General: The changes to this standard should not have an impact on currently listed products. The substantive changes are:

- Revised the sampling, inspection and certification procedures (see Sections 2.1, 9.1 and 14).

Section 2, Referenced Documents: Removed the referenced standard ASTM D1898 for sampling of plastics as follows:

2.1 ASTM Standards:

D1822 Test Method for Tensile-Impact Energy to Break Plastics and Electrical Insulating Materials

~~*D1898 Practice for Sampling of Plastics (Withdrawn 1998)*~~

D2117 Test Methods for Carbon Black—Surface Area by Nitrogen Adsorption (Withdrawn 1999)

Section 9, Sampling: Revised the sampling procedure as follows:

9.1 ~~*Unless otherwise specified, the materials shall be sampled in accordance with the sampling procedure prescribed in Practice D1898. Adequate statistical sampling shall be considered an acceptable alternative*~~ *Sampling shall be statistically adequate to satisfy the requirements of 14.4.* A batch or lot of resin shall be considered as a unit of manufacture as prepared for shipment and may consist of a blend of two or more production runs of material.

14. Inspection and Certification: Revised the inspection and certification procedures as follows:

14.1 ~~*Certification Inspection and inspection certification of the material supplied under this specification shall conform with reference to a specification based on this classification system shall be for conformance to the requirements specified herein and in Classification herein. D4000, Section 15.*~~

14.2 Lot-acceptance inspection shall be the basis on which acceptance or rejection of the lot is made. The lot-acceptance inspection shall consist of:

14.2.1 Melt Flow

14.3 Periodic check inspection with reference to a specification based upon this classification system shall consist of the tests for all requirements of the material under the specification. Inspection frequency shall be adequate to ensure the material is certifiable in accordance with 14.4.

14.4 Certification shall be that the material was manufactured by a process in statistical control, sampled, tested, and inspected in accordance with this classification system, and that the average values for the lot meet the requirements of the specification (line callout).

14.5 A report of test results shall be furnished when requested. The report shall consist of results of the lot-acceptance inspection for the shipment; the percent by weight of recycled plastic, as defined in 3.1.47 of Guide D7209, if requested; and the result of the most recent periodic-check inspection.