



**Summary of Substantive Changes
between the 2010 and the 2011 editions of
ASTM D4101, “Polypropylene Injection and Extrusion Materials”**

Presented to the IAPMO Standards Review Committee on May 7, 2012

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

- Notes 12 and 17 were added.

Section 11, Specimen Preparation:

Section 11.1: Added Note 12 as follows:

NOTE 12—Limited data have shown that, for Polypropylenes, mechanical test values can be significantly affected by the cross sectional area of the runner. Specimens molded using the specified minimum runner size of 5 mm D (~20 mm²) exhibited lower values of most mechanical properties than specimens molded using runners with cross-sectional areas of 50 and 80 mm². Higher viscosity (lower MFR) materials appear to be more sensitive. This effect needs to be considered when comparing data obtained from different sources.

Section 12.1, Conditioning:

Section 12.1.3: Added Note 17 as follows:

NOTE 17—Data have shown that, for some polypropylene impact copolymers with higher xylene solubles or higher rubber content, Izod impact values can vary significantly over time.