



**Summary of Substantive Changes  
between the 2005 and the 2013 editions of  
ASTM F405 “Corrugated Polyethylene (PE) Pipe and Fittings”**

**Presented to the IAPMO Standards Review Committee on October 7, 2013**

**General: General:** The changes to this standard might have an impact on currently listed products. The major change is:

- Changed the minimum cell classification for PE pipe and fittings
- Updated the referenced standards for PE resins

Section 1, Scope: Updated the explanatory note to clarify that there is overlap between the sizes covered by this standard and ASTM F667 as follows:

*1.2 The values stated in inch-pound units are to be regarded as ~~the~~ standard. The values given in parentheses are ~~for information only~~. mathematical conversions to SI units that are provided for information only and are not considered standard.*

NOTE 1—~~Sizes 8 to 15 in.~~ Along with sizes 3 to 6 in. covered in this specification, sizes 4 to 24 in. are described in Specification F667.

Section 2, Referenced Documents: Updated the referenced documents as follows:

2.1 ASTM Standards:2

~~D1248 Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable~~

D3350 Specification for Polyethylene Plastics Pipe and Fittings Materials

Section 5, Materials: Changed the minimum cell classification for PE pipe and fittings as follows;

*5.1 General—Compounds used in the manufacture of corrugated PE drainage pipe and fittings shall conform with the requirements of ~~Grade P14 Class C, Grade P23 Class C, Grade P33 Class C, or Grade P34 Class C~~, have a minimum cell classification of 323410C or 333410C as defined and described in Specification ~~D1248~~D3350. Compounds that have a higher cell classification in one or more properties are acceptable, provided the product requirements are met.*