



**Summary of Substantive Changes
between the 2011 and the 2012 editions of
ASTM D2665 “Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent
Pipe and Fittings”**

Presented to the IAPMO Standards Review Committee on July 9, 2012

General: The changes to this standard might have an impact on currently listed products. The allowable cell class for PVC compounds used to manufacture fittings was changed as follows:

- For PVC fittings, cell classes 11432 (as defined in ASTM D4396) and cell class 12454 (as defined in ASTM D1784) were removed and cell class 12344 (as defined in ASTM D1784) was added; however, the tensile strength and modulus of elasticity were changed to an in-between cell classification, as shown in the table below:

Cell class (fittings)	ASTM D2665 Requirement	ASTM D1784 cell class 12344	ASTM-D4396 cell-class 11432	ASTM-D1784 cell-class 12454
Base Resin	PVC	PVC	PVC	PVC
Impact resistance, ft-lb/in	0.65	0.65	0.65	0.65
Tensile strength, psi	6,500	6,000	6,500	7,000
Modulus of elasticity, psi	380,000	360,000	380,000	400,000
Deflection temperature, °F	158	158	158	158

Section 2, Referenced Documents: The referenced standard was removed as follows;

~~*ASTM-D4396 Specification for Rigid Poly(Vinyl Chloride) (PVC) and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds for Plastic Pipe and Fittings Used in Nonpressure Applications*~~

Section 5.1, Basic Materials: The allowable class of PVC compounds used to manufacture fittings was changed as follows:

The pipe shall be made of virgin PVC compounds meeting or exceeding the requirements of Class 12454 as defined in Specification D1784. The fittings shall be made of virgin PVC compounds meeting or exceeding the requirements of Class ~~12454~~12344 as defined in Specification D1784 ~~or Class 11432 as defined in Specification D4396. These plastics contain stabilizers, lubricants, and pigments,~~ but with a tensile strength of not less than 6500 psi and a modulus of elasticity for not less than 380,000 psi. ~~These plastics contain stabilizers, lubricants, and pigments.~~