Summary of Substantive Changes
between the 2005 and 2010 editions of
CSA B602, "Mechanical couplings for drain, waste, and vent pipe and sewer pipe"

Presented to the IAPMO Standards Review Committee on February 13, 2012

General: The technical content was changed and there may be an impact on current listings. The technical changes include additional requirements for testing Type 3 couplings.

Section 2, Reference publications: This section was updated to reflect the current editions of referenced standards and the following standards were removed or added:
~~*ASTM A 536-84 (1999) e1 "Standard Specification for Ductile Iron Castings"*~~
ASTM D3677-00 (2004) "Standard Test Methods for Rubber – Identification by Infrared Spectrophotometry"
ASTM D6147-97 (R2008) "Standard Test Method for Vulcanized Rubber and Thermoplastic Elastomer — Determination of Force Decay(Stress Relaxation) in Compression"

5.1 Elastomer
Section 5.1.1, General:
Section 5.1.1.1: Changed the section to require Type 3 couplings to be made with properly vulcanized virgin elastomeric compound only.
Section 5.1.1.3: Added requirements for the timing of Type 3 coupling tests and the following note is applied to pertinent sections of the standard, *Note: See Clause 5.1.1.3 for timing of Type 3 coupling tests*.

Section 5.1.2, Tensile strength and elongation: Increased the required elongation from 150 to 250%.

Section 5.1.4.2.2, Test procedure for Type 1 and Type 2 couplings: Divided the materials into two groups; less than 90 IRHD, and 90 IRHD or greater, and clarified the standard to use as ASTM D395.

Section 5.1.4.3, Stress relaxation test (for Type 1 and Type 2 couplings only):
- Changed the referenced standard for the conduction of the test from ~~*Clause 10.4 of CAN/CSA-B182.2*~~ to *Method B in ASTM D6147*
- Decreased the test time from ~~*1000 h*~~ to *168 h*
- Removed the requirement to extrapolate values to 100,000 h and
- Changed the required remaining stress from ~~*30%*~~ to *20%*

Section 5.1.9, Heat aging test: Changed the text as follows:
(c) a maximum increase in hardness of 10 ~~units~~IRHD.

Section 6.3.2, Test procedure for *Type 1 and 2 couplings*:

- Removed Type 3 couplings from the procedure
- Replaced the hydrostatic test pressures listed in Table 2 with a uniform test pressure of 30 kPa for all pipe sizes
- Reduced the test duration from 30 to 5 min

Section 6.3.3, Test procedure for Type 3 couplings: Added this procedure to test Type 3 couplings, limiting the pressure test to a uniform deflection angle of 5° and test pressure of 30 kPa for all NPS.

Table 2: Joint tightness test (deflected) – Restrained: Removed column 3 (Test Pressure) from the table.