



**Summary of Substantive Changes
between the 2007 and the 2012 editions of
ASTM F810, “Smoothwall Polyethylene (PE) Pipe for Use in
Drainage and Waste Disposal Absorption Fields”**

Presented to the IAPMO Standards Review Committee on March 11, 2013

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

- Revised the scope to specify that the standard covers pipe in two stiffness classes: standard and heavy duty (see Section 1.2)
- Added marking requirements to distinguish between the two stiffness classes (See section 9)
- Revised Table 3 to include the two stiffness classes and added the minimum pipe stiffness for heavy duty pipe (see Table 3)

Section 1, Scope: Revised to include closed profile pipe and to cover the two stiffness classes, as follows:
Section 1.1:

This specification covers requirements and test methods for workmanship, flattening, dimensions, tolerances, stiffness, perforations, environmental stress cracking, bonding, and impact resistance for smoothwall perforated and nonperforated polyethylene (PE) pipe, including coextruded and closed profile pipe. Methods of marking are also included.

Section 1.2:

1.2 This specification includes two stiffness classes, referred to as, “Standard” and “Heavy Duty.”

Section 6.5 Pipe Stiffness: Revised to include the two stiffness classes as follows:

The pipe stiffness at 5 % deflection (F/Dy) shall not be less than the values given in Table 3 for the two stiffness classes when tested in accordance with Test Method D2412.

Section 9, Marking and Labeling: Added the following marking requirements.

9.1.4 This designation, “ASTM F810–S” or “ASTM F810–HD.”

Table 3: Revised the table to include the two stiffness classes and added the minimum pipe stiffness for heavy duty pipe as follows:

**TABLE 3 Minimum Pipe Stiffness, F/Δy, at 5 % Deflection
Minimum Pipe Stiffness, psi (kPa)**

Nominal Pipe Size, in. (mm)	<u>Standard</u>		<u>Heavy Duty</u>	
	<u>psi</u>	<u>kPa</u>	<u>psi</u>	<u>kPa</u>
3 (75)	19	131	<u>40</u>	<u>275</u>
4 (100)	11	76 <u>75</u>	<u>22</u>	<u>150</u>
6 (150)	8	55	<u>18</u>	<u>125</u>