

**INTERNATIONAL ASSOCIATION OF PLUMBING  
AND MECHANICAL OFFICIALS**

**PROPERTY STANDARD  
FOR**

**FLEXIBLE PVC HOSE FOR POOLS,  
HOT TUBS, SPAS AND JETTED BATHTUB**

**IAPMO PS 33-2007a**

**1. PURPOSE**

- 1.1** The purpose of the standard is to establish generally acceptable quality standards for flexible PVC hose. Its purpose is also to serve as a guide for producers, distributors, architects, engineers, code authorities and users; to promote understanding regarding materials, manufacture and installation; and to provide a basis for identifying flexible PVC hose that conforms to this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction, provided any such alternate meets the intent and requirements of this document and changes are amended to this standard.

**2. SCOPE**

- 2.1** This standard covers physical properties and test methods pertaining to tensile strength, brittleness, hardness, dimensions and other significant properties, in addition to general requirements of materials for PVC Hose for use on circulation piping on pools, hot tubs, spas and jetted bathtub units.

**3. GENERAL REQUIREMENTS**

- 3.1** Hose dimensions for helix reinforcement shall comply with Table 2-1. Hose dimensions for fabric reinforcement shall comply with Table 2-1A.
- 3.2** PVC tubing with Helix or Fabric reinforced materials shall meet the minimum requirements of cell classification as specified in Table 2-2 when test in accordance with Section 4.2 of this standard.
- 3.3** PVC tubing with Non-Reinforced material shall have a minimum wall thickness of 1/16", minimum ID of 3/16" and minimum OD of 5/16". The tubing material shall comply with the following property requirements.