

**INTERNATIONAL ASSOCIATION OF PLUMBING  
AND MECHANICAL OFFICIALS**

**IAPMO GUIDE CRITERIA  
FOR**

**POLYETHYLENE OF RAISED TEMPERATURE  
(PE-RT) TUBING**

**IAPMO IGC 228-2006**

**1. PURPOSE**

- 1.1** This standard establishes general requirements for Polyethylene of Raised Temperature (PE-RT) Tubing. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials and manufacture; and to provide for identifying PE-RT tubing.
- 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 standard.

**2. SCOPE**

- 2.1** This standard establishes requirements for polyethylene of raised temperature (PE-RT) tubing made to standard thermoplastic tubing dimension ratios (SDR) that is outside diameter controlled, and pressure rated for water at 73°F (23°C), 140°F (60°C) and 180°F (82.2°C). Included are requirements for material, workmanship, dimensions and tolerances, product tests, and markings for PE-RT tubing.
- 2.2** The tubing produced under this standard is intended for use in general fluid transport, including hydronics and irrigation systems. This standard does not address potable water applications.

**3. REFERENCED STANDARDS**

- 3.1** All standards referenced herein shall be the current edition of the standards.

ASME B36.10	Welded and Seamless Wrought Steel Pipe
ASTM D 618	Conditioning Plastics and Electrical Insulating Materials for Testing
ASTM D 1598	Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
ASTM D 1599	Short-Time Hydraulic Failure Pressure of Plastic Pipe, Tubing and Fittings
ASTM D 2122	Determining Dimensions of Thermoplastic Pipe and

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