

ICS 83.140.30

CCS G33



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 39379-2020

**Thermoplastics piping systems for non-pressure
applications-Test method for watertightness**

无压热塑性塑料管道系统 水密性试验方法

(English Translation)

Issued on: November 19, 2020

Implemented on: June 1, 2021

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

This Standard was drafted in accordance with the rules in GB/T 1.1-2009.

This Standard uses the translation method and equivalently adopts ISO 13254:2010 Thermoplastics Piping Systems for Non-pressure Applications - Test Method for Watertightness.

This Standard makes the following editorial modifications:

---The pressure dimension bar is modified into the legal measurement unit MPa (megapascal) of our country;

---In order to be consistent with the description of the standard, the indicating arrow of b in Figure 1 is changed to outward.

Please be noted that certain content of this document might involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

This Standard was proposed by China National Light Industry Council.

This Standard shall be under the jurisdiction of National Technical Committee 48 on Plastics Products of Standardization Administration of China (SAC/TC 48).

The drafting organizations of this Standard: Beijing Building Materials Testing Academy Co., Ltd. (National Supervision and Inspection Center for Water-saving Appliance Products); Shanghai White Butterfly Pipe Technology Co., Ltd.; Yada Plastic Products

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1 Scope

This Standard specifies the test method for watertightness of thermoplastics piping systems for non-pressure applications.

This Standard is applicable to products and plastic piping system joints made of two or more components through secondary processing.

2 Principle

Within the specified time, the secondary processed products or the assembly composed of pipes and / or pipe fittings are subject to the specified internal hydrostatic pressure. During the test, check the airtightness of the secondary processed products or the assembly joints.

NOTE: the following test requirements may be provided by relevant standards:

- a) Specimen preparation procedures in 4.1 and Chapter 5;
- b) The number of specimens in 4.2.

3.1 End Sealing Device

The joint assembly can be sealed and properly fixed; ensure that the sealing device or specimen does not separate under the test pressure and no axial force shall be applied to the specimen. The weight of the device shall not affect the deflection angle of the specimen (see 5.2).

3.2 Hydrostatic Pressure Source

It is connected to at least one end of the sealing device. In accordance with the requirements of 5.4, gradually and smoothly apply a pressure to the specimen. During the test, the specified test pressure can be maintained, and the fluctuation range is

3.3 Vent Valve

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