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

GB/T 19473.5-2020

**Polybutene (PB) piping systems for hot and cold water
installations - Part 5: Fitness for purpose of the system**

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Foreword

GB/T 19473 "Polybutene Piping System for Hot and Cold Water" is divided into the following parts.

---Part 1.General Provisions;

---Part 2.Pipes;

---Part 3.Pipe fittings;

---Part 5.System applicability.

This part is Part 5 of GB/T 19473.

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

This part uses the redrafting method to modify and adopt ISO 15876-5:2017 "Plastic piping system for cold and hot water (PB) No. 5

Part. System Suitability.

Compared with ISO 15876-5:2017, this part adds Chapter 5 test methods in structure.

Compared with ISO 15876-5:2017, this part has technical differences. Appendix A gives the technical differences and their reasons.

This section has made the following editorial changes.

---In order to be consistent with my country's technical standard system, the standard name is changed to "Polybutene (PB) Piping System for Cold and Hot Water Part 5.System

System Applicability."

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This part was proposed by the China National Light Industry Council.

This part is under the jurisdiction of the National Plastic Products Standardization Technical

Committee (SAC/TC48).

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Co., Ltd., Hongyue Plastic Group Co., Ltd., Zhongwei An (Beijing) Certification Center.

1 Scope

This part of GB/T 19473 specifies the terms, definitions, symbols and abbreviations for the applicability of polybutene (PB) piping systems for cold and hot water.

System suitability requirements and test methods.

This part, together with other parts of GB/T 19473, applies to building cold and hot water pipe systems, including drinking water and heating pipes system.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 2918 Standard environment for condition adjustment and testing of plastic samples

GB/T 6111-2018 Determination of internal pressure resistance of thermoplastic piping systems for fluid transportation

GB/T 15820 Pull-out resistance test of polyethylene pressure pipe and pipe fitting connection

GB/T 19278-2018 General terms and definitions for thermoplastic pipes, fittings and valves

GB/T 19473.1-2020 Polybutene (PB) piping system for hot and cold water Part 1.General

ISO 3503 Plastic piping system Pressure piping mechanical connection joints test method for tightness withstand internal pressure when bending

ISO 13056 Plastic piping system cold and hot water pressure system vacuum tightness test method

ISO 19892 Thermoplastic pipes and fittings joint pressure cycle test method for cold and hot water in plastic piping system

ISO 19893 Thermoplastic pipes and pipe fitting assemblies for plastic piping systems for cold and hot water resistance to temperature cycling test method

3 Terms, definitions, symbols and abbreviations

The terms, definitions, symbols and abbreviations defined in GB/T 19473.1-2020 and GB/T 19278-2018 apply to this document.