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

GB/T 45232-2025

**Polypropylene(PP) piping systems for drainage and sewerage
inside buildings**

建筑排水排污用聚丙烯（PP）管道系统
(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is modified to adopt ISO 7671:2003 "Polypropylene (PP) plastics piping systems for sewage and wastewater (high and low temperature) in buildings".

Compared with ISO 7671:2003, this document has many structural adjustments. Comparison table of structural number changes between the two documents See Appendix A. This document has many technical differences compared to ISO 7671:2003.

A summary of these technical differences and their causes is given in Appendix B. The following editorial changes were made to this document.

--- In order to coordinate with the existing standards, the name of the standard is changed to "Polypropylene (PP) Piping System for Building Drainage and Sewage";

--- Deleted Appendix A "Additional properties of PP pipes and fittings" of ISO 7671:2003.

1 Scope

This document specifies the classification and connection methods, materials, appearance, color, specifications and sizes of polypropylene (PP) pipe systems for building drainage and sewage treatment.

It describes the requirements of size and physical and mechanical properties, system applicability, etc., describes the corresponding test methods, and stipulates the inspection rules, marking, packaging, transportation and storage. Stored content.

This document is applicable to drainage and sewage treatment in buildings and building materials made of polypropylene (PP) resin as the main raw material, which are extruded or injection molded.

Polypropylene pipes and fittings for underground drainage and sewage disposal in buildings (hereinafter referred to as "pipes" and "fittings").

This document also applies to polypropylene pipes and fittings for industrial drainage and sewage that meet the requirements of chemical resistance and heat resistance.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 1033.1 Plastics - Determination of density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (GB/T 1033.1-2008,ISO 1183-1:2004,IDT)

GB/T 1040.2 Determination of tensile properties of plastics Part 2: Test conditions for moulding and extruded plastics (GB/T 1040.2-2022,ISO 527-2:2012,MOD)

GB/T 1633 Determination of Vicat softening temperature (VST) of thermoplastics (GB/T 1633-2000, idt ISO 306:1994)

GB/T 2828.1 Sampling procedures for inspection by attributes Part 1: Sampling plans for batch inspection based on the acceptance quality limit (AQL) (GB/T 2828.1-2012,ISO 2859-1:1999,IDT)

GB/T 2918 Standard environment for conditioning and testing of plastic specimens (GB/T 2918-2018, ISO 291:2008, MOD)

GB/T 3682.1 Plastics - Determination of melt mass flow rate (MFR) and melt volume flow

rate (MVR) of thermoplastics Part 1: Standard method (GB/T 3682.1-2018, ISO 1133-1:2011, MOD)

GB/T 6111 Determination of the resistance to internal pressure of thermoplastic pipe systems for fluid transportation (GB/T 6111-2018, ISO 1167-1:2006, ISO 1167-2:2006, ISO 1167-3:2007, ISO 1167-4:2007, NEQ)

GB/T 6671 Determination of longitudinal shrinkage of thermoplastic pipes (GB/T 6671-2001, eqv ISO 2505:1994)

GB/T 8801 Drop test method for rigid polyvinyl chloride (PVC-U) pipe fittings

GB/T 8803 Injection molding rigid polyvinyl chloride (PVC-U), chlorinated polyvinyl chloride (PVC-C), acrylonitrile butadiene styrene Thermal oven test method for pipe fittings of ABS (ABS) and ASA (acrylonitrile-styrene-acrylate) terpolymers

GB/T 8806 Plastic piping systems - Measurement of dimensions of plastic components (GB/T 8806-2008, ISO 3126:2005, IDT)

GB/T 9341 Determination of flexural properties of plastics (GB/T 9341-2008, ISO 178:2001, IDT)

GB/T 9345.1 Determination of ash content in plastics Part 1: General method (GB/T 9345.1-2008, ISO 3451-1:1997, IDT)

GB/T 9647 Determination of ring stiffness of thermoplastic pipes (GB/T 9647-2015, ISO 9969:2007, IDT)

GB/T 10002.1 Rigid polyvinyl chloride (PVC-U) pipes for water supply

GB/T 14152 Test method for external impact resistance of thermoplastic plastic pipes Clockwise rotation method (GB/T 14152-2001, eqv ISO 3127:1994)