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

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**Extruded sheets of impact-modified polystyrene(PS-I) -  
Requirements and test methods**

抗冲击聚苯乙烯（PS-I）挤出片材 要求和试验方法

**(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 is required.

This document is equivalent to ISO 14631:2021 "Requirements and test methods for high-impact polystyrene (PS-I) extruded sheets".

## 1 Scope

This document specifies the requirements for high-impact polystyrene (PS-I) extruded sheets (hereinafter referred to as "PS-I") without fillers and reinforcements.

The corresponding test method is described.

This document applies to PS-I extruded sheets with a thickness range of 0.25 mm to 20.00 mm, including sheets extruded in coil form.

## 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.

in this document.

ISO 179-1 Plastics-Determining the impact properties of simply supported beams Part 1: Non-instrumented impact test (Plastics-Determining the impact properties of simply supported beams Part 1: Non-instrumented impact test tion of Charpy impact properties-Part 1: Non-instrumented impact test) Note. GB/T 1043.1-2008 Determination of impact properties of simply supported beams of plastics Part 1: Non-instrumented impact test (ISO 179-1:2000, IDT) ISO 291 Plastics - Standard atmospheres for condition and testing ing and testing) Note. GB/T 2918-2018 Standard environment for conditioning and testing of plastic specimens (ISO 291:2008, MOD) ISO 306 Plastics-Thermoplastic materials-Determination of the Vicat softening temperature (VST) Note. GB/T 1633-2000 Determination of Vicat softening temperature (VST) of thermoplastics (idt ISO 306:1994) ISO 527-1 Plastics-Determination of tensile properties Part 1: General ties - Part 1: General principles) Note. GB/T 1040.1-2018 Determination of tensile properties of plastics Part 1: General (ISO 527-1:2012, IDT) ISO 527-2 Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extruded plastics (Plastics-Determina-tion of tensile properties-Part 2: Test conditions for molding and extrusion plastics) Note. GB/T 1040.2-2022 Determination of tensile properties of plastics Part 2: Test conditions for molded and extruded plastics (ISO 527-2:2012, MOD) ISO 1043-1 Plastics-Symbols and abbreviations Part 1: Basic polymers and their properties breviated terms-Part 1: Basic polymers and their special characteristics) Note. GB/T 1844.1-2022 Plastics symbols and abbreviations Part 1: Basic polymers and their characteristic properties (ISO 1043-1:2011, MOD) ISO 1183-1 Plastics - Determination of density of non-cellular plastics - Part 1: Immersion method, pycnometer method and titration method (Plastics - Methods for determining the density of non-cellular plastics-Part 1: Immersion method, liquid

pycnometer method and titration method) Note. GB/T 1033.1-2008 Plastics-Determination of density of non-cellular plastics-Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2004, IDT) ISO 1183-2 Plastics-Methods for determination of density of non-cellular plastics-Part 2: Density gradient column method terminating the density of non-cellular plastics-Part 2: Density gradient column method) Note. GB/T 1033.2-2010 Plastics - Determination of density of non-cellular plastics - Part 2: Density gradient column method (ISO 1183-2:2004, MOD)