



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

**GB/T 40440-2021**

---

**Plastics - Extruded sheets of impact-modified  
acrylonitrile-styrene copolymers(ABS, AEPDS and ASA) -  
Requirements and test methods**

**Issued on: August 20, 2021**

**Implemented on: March 1, 2022**

---

**Issued by: State Administration for Market Regulation, China National  
Standardization Administration**

## Table of Contents

Foreword

1 Scope

2 Normative references

1 Balindentationmethod)

### Foreword

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

This standard uses the translation method equivalent to ISO 15015.2011 "Plastic impact modified acrylonitrile-styrene copolymer (ABS,

AEPDS and ASA) Extrusion Sheet Requirements and Test Methods".

The Chinese documents that have a consistent correspondence relationship with the normatively cited international documents in this standard are shown in Appendix NA.

This standard has made the following editorial changes.

---Add appendix NA.

### 1 Scope

This standard specifies the impact-resistant modified acrylonitrile-styrene copolymer material without filling and reinforcing materials. acrylonitrile-butadiene-styrene

Olefin copolymer (ABS), acrylonitrile-ethylene-propylene-styrene copolymer (AEPDS) (commonly called AES) and acrylonitrile-styrene-acrylic acid

Requirements and test methods for ester (ASA) extruded sheets.

This standard only applies to ABS, AEPDS and ASA plates with a thickness of 0.25mm~20.0mm, and also applies to coiled materials.

Sheet.

### 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 reference documents, the latest version (including all amendments) is applicable to this document.

ISO 179-1 Determination of impact properties of plastic simply supported beams Part 1. Non-instrumented impact test (Plastics-

Determination of Charpy impact properties - Part 1. Non-instrumented impact test)

ISO 179-2 Determination of impact properties of plastic simply supported beams Part 2. Instrumented impact test (Plastics - Determination

of Charpy impact properties - Part 2. Instrumented impact test)

ISO 291 Standard environment for condition adjustment and testing of plastic specimens (Plastics - Standard atmospheres for conditioning and testing)

ISO 306.2004(1) Determination of Vicat Softening Temperature (VST) of Plastic Thermoplastics [Plastics - Thermoplastic ma-

terials - Determination of Vicat softening temperature (VST)]

ISO 527-2 Determination of tensile properties of plastics Part 2. Test conditions for molding and extrusion plastics (Plastics - Determination of tensile properties - Part 2. Test conditions for moulding and extrusion plastics)

ISO 1183 Plastic Non-foam Plastic Density Determination (All Parts)

(Plastics - Methods for determining the density of non-cellular plastics, all parts)

ISO 2039-1 Plastics Hardness Determination Part 1. Ball Indentation Method (Plastics - Determination of Hardness - Part 1. Ball indentation method)

## **1 Ball indentation method)**

ISO 2580-12) Plastic Acrylonitrile-Butadiene-Styrene (ABS) Molding and Extrusion Materials Part 1. Naming System and Classification

Foundation (Plastics - Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials - Part 1. Designation system and basis for specifications)

1) ISO 306.2004 is obsolete and replaced by ISO 306.2013.

2) ISO 2580-1 has been obsolete and is part 1 of ISO 19062-1 Plastic Acrylonitrile Butadiene Styrene Copolymer (ABS) Molding and Extrusion Materials

Points. naming system and basic specifications

[Plastics - Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials -

Part 1.Designationsystemandbasisforspecifications] instead.

ISO 2818 Plastics-Preparation of test specifications by machining

chinastandards.org - PREVIEW