

ICS 83.080.20

CCS G 31



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

GB/T 46829.2-2025

**Plastics - Acrylonitrile-styrene-acrylate (ASA),
acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS) and acrylonitrile-(chlorinated
polyethylene)-styrene (ACS) moulding and extrusion materials - Part 2: Preparation of
test specimens and determination**

塑料 丙烯腈-苯乙烯-丙烯酸酯 (ASA)、丙烯腈-(乙烯-丙烯-二烯烃)-苯乙烯 (AEPDS) 和丙烯腈-(氯化聚乙烯)-苯乙烯 (ACS) 模塑和挤出材料 第2部分: 试样制备和性能测定

(English Translation)

Issued on: December 2, 2025

Implemented on: July 1, 2026

Issued by: State Administration for Market Regulation

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is GB/T 46829 "Plastics Acrylonitrile-Styrene-Acrylate (ASA), Acrylonitrile-(Ethylene-Propylene-Diolefin)-Styrene".

Part 2 of GB/T 46829, "Molding and Extrusion Materials of Acrylonitrile-(Chlorinated Polyethylene)-Styrene (ACS)," has been published.

The following parts were included.

---Part 1: Naming Systems and Classification Basics;

---Part 2: Sample preparation and performance determination.

This document is modified to adopt ISO 19065-2:2019 "Plastics - Acrylonitrile-styrene-acrylate (ASA), Acrylonitrile-(ethylene-propylene-) Diolefin-Styrene (AEPDS) and Acrylonitrile-(Chlorinated Polyethylene)-Styrene (ACS) Molding and Extrusion Materials Part 2: Sample Preparation Preparation and performance testing.

This document has undergone the following structural adjustments compared to ISO 19065-2:2019.

---The first paragraph of 4.1 corresponds to the last paragraph of Chapter 1 of ISO 19065-2:2019;

---Appendix B corresponds to Appendix A in ISO 19065-2:2019.

This document differs significantly from ISO 19065-2:2019. The relevant clauses are indicated in vertical margins.

Straight lines (|) are marked. A summary of these technical differences and their reasons can be found in Appendix A.

The following editorial changes have been made to this document.

- a) Added instructions on material drying treatment before molding (see note 4.2);
- b) Added instructions for preparing test specimens by punching after compression molding (see note 4.4);
- c) A description of the contact pressure has been added (see the notes in Table 2);
- d) An Appendix A (informative) has been added, "Technical differences between this document and ISO 19065-2:2019 and the reasons thereof." Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Plastics Standardization (SAC/TC15).

Introduction

GB/T 46829 Plastics Acrylonitrile-Styrene-Acrylate (ASA), Acrylonitrile-(Ethylene-propylene-diene)-Styrene the "(AEPDS) and Acrylonitrile-(Chlorinated Polyethylene)-Styrene (ACS) Molding and Extrusion Materials" is proposed to consist of two parts.

---Part 1: Naming System and Classification Foundations. The aim is to establish a standard model applicable to ASA, AEPDS, and ACS.

The naming conventions and classification principles of materials.

---Part 2: Sample Preparation and Performance Determination. The aim is to establish sample preparation methods suitable for ASA, AEPDS, and ACS materials.

Preparation methods and performance testing items, methods, and conditions.

Plastics Acrylonitrile-Styrene-Acrylic (ASA) Acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS) and Acrylonitrile-(chlorinated polyethylene)-styrene (ACS) Molding and Extrusion Materials Part 2: Samples Preparation and performance determination

1 Scope

This document describes acrylonitrile-styrene-acrylate (ASA), acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS), and propylene...

Methods for specimen preparation and performance determination of acrylonitrile-(chlorinated polyethylene)-styrene (ACS) molding and extrusion materials. This document also describes the methods for specimen preparation and performance

determination.

Pretreatment of test materials and conditioning of test specimens before testing.

This document describes the methods and conditions for preparing ASA, AEPDS, and ACS molding and extrusion material specimens, as well as the methods for using these specimens.

Methods for determining material properties. This document outlines the suitability and necessity for characterizing ASA, AEPDS, and ACS molding and extrusion materials.

Capabilities and testing methods.

These properties were selected from the general test methods in GB/T 19467.1. This document also lists the wide applications of molding and extrusion materials.

Other test methods that are of particular significance or significance, as well as the methods for determining the named properties in GB/T 46829.1.

This document applies to acrylonitrile-styrene-acrylate (ASA), acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS), and propylene glycol.

Preparation and performance determination of acrylonitrile-(chlorinated polyethylene)-styrene (ACS) molding and extrusion material samples.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 1033.1 Determination of density of non-foamed plastics - Part 1: Impregnation method, liquid pyrometer method and titration method (GB/T 1033.1-2008, ISO 1183-1:2004, IDT) GB/T 1033.2 Determination of density of non-foamed plastics - Part 2: Density gradient column method (GB/T 1033.2-2010) ISO 1183-2:2004, MOD) GB/T 1033.3 Determination of density of non-foamed plastics - Part 3: Gas pycnometer method (GB/T 1033.3-2010) ISO 1183-3:1999, IDT GB/T 1034 Determination of water absorption of plastics (GB/T 1034-2008, ISO 62:2008, IDT) GB/T 1040.2 Determination of tensile properties of plastics - Part 2: Test conditions for molded and extruded plastics (GB/T 1040.2-2022, ISO 527-2:2012, MOD) GB/T 1040.4 Determination of tensile properties of plastics - Part 4: Isotropic and orthotropic fiber-reinforced composites Test conditions (GB/T 1040.4-2006, ISO 527-4:1997, IDT) GB/T 1043.1 Determination of impact properties of simply supported plastic beams - Part 1: Non-instrumental impact testing (GB/T

1043.1-2008, ISO 179-1:2000, IDT) GB/T 1043.2 Determination of impact properties of simply supported plastic beams - Part 2: Instrumented impact testing (GB/T 1043.2-2018) ISO 179-2:1997, IDT