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

GB/T 46202-2025

**Plastics/rubber - Polymer dispersions and rubber latices
(natural and synthetic) - Definitions and review of test methods**

塑料/橡胶 聚合物分散体和橡胶胶乳（天然和合成）定义和测试方法的概述

(English Translation)

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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 modifies and adopts ISO 12000:2014 "Plastics/rubber polymer dispersions and rubber latexes (natural and synthetic)" to define and implement them.

Overview of testing methods.

This document differs significantly from ISO 12000:2014. The relevant clauses are indicated in vertical margins.

Single lines (|) are indicated. A summary of these technical differences and their causes can be found in Appendix A.

The following editorial changes have been made to this document.

---ISO.2006-2 listed in Chapter 2 has been removed; there are no references to this document in the text.

---ISO 472 has been replaced by GB/T 2035-2024 (see 3.1, 3.3), which is cited in the informational reference.

---References have been added.

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).

1 Scope

This document defines the relevant polymer dispersions and latexes.

This document applies to test methods for determining the properties of polymer dispersions, including products of synthetic or natural origin, encompassing both synthetic and natural rubber.

Latex.

Some of the test methods in this document are only applicable to polymer dispersions or latexes with specific chemical compositions, or for specific applications.

Note: When there are no currently valid standards for these test methods, the test methods used to study polymer dispersions or latexes shall be based on the agreements of the relevant parties.

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 1725 Determination of nonvolatile matter content in paints, varnishes and plastics (GB/T 1725-2007, ISO 3251:2003, IDT) GB/T 2918 Standard environment for conditioning and testing of plastic specimens (GB/T 2918-2018, ISO 291:2008, MOD) GB/T 2941 General procedures for specimen preparation and conditioning in physical testing of rubber (GB/T 2941-2025, ISO 23529.

2016, IDT)

GB/T 6750 Determination of density of paints and varnishes - Specific gravity bottle method (GB/T 6750-2007, ISO 2811-1:1997, IDT) GB/T 8088 Determination of nitrogen content in natural raw rubber and natural rubber latex (GB/T 8088-2008, ISO 1656:1996, MOD) GB/T 8290 Latex Sampling (GB/T 8290-2021, ISO 123:2001, MOD) GB/T 8291 Determination of latex curd content (sieve residue) (GB/T 8291-2023, ISO 706:2004, MOD) GB/T 8292 Determination of volatile fatty acid value of concentrated natural latex (GB/T 8292-2008, ISO 506:1992, IDT) GB/T 8293 Determination of residue content in concentrated natural latex (GB/T 8293-2019, ISO.2005.2014, MOD) GB/T 8294 Determination of Boric Acid Content in Concentrated Natural Rubber Latex (GB/T 8294-2008, ISO 1802:1992, IDT) GB/T 8295 Determination of Copper Content in Natural Rubber and Latex (Photometric Method) (GB/T 8295-2008, ISO 8053:1995) MOD) GB/T 8297 Determination of potassium hydroxide (KOH) value in concentrated natural rubber latex (GB/T 8297-2023, ISO

127:2018) MOD) GB/T 8298 Determination of total solids content in latex (GB/T 8298-2017, ISO 124:2014, MOD) GB/T 8299 Determination of dry rubber content in concentrated natural rubber latex (GB/T 8299-2008, ISO 126:2005, IDT) GB/T 8300 Determination of alkalinity of concentrated natural rubber latex (GB/T 8300-2025, ISO 125:2020, MOD) GB/T 8301 Determination of mechanical stability of concentrated natural latex (GB/T 8301-2008, ISO 35:2004, IDT) GB/T 9267 Determination of white point temperature and minimum film-forming temperature of emulsions for coatings and polymer dispersions for coatings and plastics (GB/T 9267-2008, ISO 2115:1996, IDT) GB/T 11202 Determination of Iron Content in Rubber - 1,10-Phenanthroline Spectrophotometric Method (GB/T 11202-2003, ISO 1657:1986) NEQ) GB/T 13248 Determination of manganese content in rubber and latex - Sodium periodate spectrophotometric method (GB/T 13248-2008, ISO 7780.