International Standard

ISO 4576

Plastics — Polymer dispersions — Determination of sieve residue

Plastiques — Dispersions de polymères — Détermination du résidu par tamisage

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This third edition cancels and replaces the second edition (ISO 4576:1996), which has been technically revised.

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The main changes are as follows:

— the normative references has been updated (see Clause 2);

— the mandatory terms and definitions clause (see Clause 3) has been added, and subsequent clauses have been renumbered;

— "general laboratory instruments" has been added in the apparatus clause (see Clause 6);

— filtering requirements before test has been added;

— a test time after sampling has been added;

— test sieve cleaning has been added;

— the procedure has been updated.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Plastics — Polymer dispersions — Determination of sieve residue

1 Scope

This document specifies a method of determination of the sieve residue (gross particle and coagulum content) of polymer dispersions.

This document is only applicable to coagulum type content.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 123, *Rubber latex — Sampling*

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

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3 Terms and definitions

No terms and definitions are listed in this document.

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ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Principle

The polymer dispersion is diluted with a specified volume of deionized water and filtered through metal gauze of a specified mesh size. The residue is washed with deionized water and then dried and weighed.

5 Reagents

5.1 Deionized water.

5.2 Surfactant, for stabilizing the polymer dispersion during testing (if necessary), as agreed by the interested parties.

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