INTERNATIONAL STANDARD

ISO 11502

Second edition
2018-11

Plastics — Film and sheeting — Determination of blocking resistance

Plastiques — Film et feuille — Détermination du pouvoir bloquant

Reference number
ISO 11502:2018(E)

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Published in Switzerland

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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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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This second edition cancels and replaces the first edition (ISO 11502:1995), of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

— Clause 2 has been updated;

— the document has been editorially revised.

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Plastics — Film and sheeting — Determination of blocking resistance

1 Scope

This document specifies two methods for assessing the tendency of flexible plastic films and sheets to adhere to one another when left in contact for some time, at a specified temperature and under light pressure. One method is qualitative and the other is quantitative.

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 291, *Plastics — Standard atmospheres for conditioning and testing*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

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

3.1
blocking
unintentional adherence between materials

4 Method A: Qualitative method

4.1 Principle

Pieces of film or sheeting are kept in contact with one another for a minimum of 24 h at 50 °C under a pressure of 7 kPa. Blocking is considered to have occurred if the surfaces suffer damage when they are separated or if the forte of adherence between them is sufficient to lift a given weight.

Alternative times, temperatures and pressures may be used depending on the nature of the plastic film or sheeting under test and the proposed end use of the material.

4.2 Apparatus

4.2.1 **Glass plates**, measuring 100 mm × 76 mm and approximately 2 mm thick.

4.2.2 **Strips of filter paper**, measuring 150 mm × 76 mm.

4.2.3 **Oven**, capable of being maintained at 50 °C ± 2 °C, with provision for placing the test assemblies on shelves so that they are no less than 50 mm from each other and from the sides of the oven.

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