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Road vehicles — Tests for rigid plastic safety glazing materials

Véhicules routiers — Essais pour les vitrages de sécurité rigides en matières plastiques

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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 on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 35, *Lighting and visibility*.

This second edition cancels and replaces the first edition (ISO 15082:1999), which has been technically revised.

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Road vehicles — Tests for rigid plastic safety glazing materials

1 Scope

This document specifies commonly used test methods relating to the safety requirements for rigid plastic safety glazing materials in a road vehicle, regardless of the type of plastic of which they are composed.

NOTE 1 Plastic safety glazing materials are classified as rigid or flexible by use of the test described in Annex A.

NOTE 2 Further test methods might be defined in separate standards.

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 48, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

ISO 3538, *Road vehicles — Safety glazing materials — Test methods for optical properties*

ISO 4892-2:2013, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3536 apply.

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

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

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

4 Test conditions

Unless otherwise specified, the tests shall be carried out under the following conditions:

— ambient temperature: 20 °C ± 5 °C;

— atmospheric pressure: 86 kPa to 106 kPa (860 mbar to 1 060 mbar);

— relative humidity: (60 ± 20) %.

5 Conditioning of test specimens

Unless otherwise specified, all test specimens to be tested shall be conditioned prior to testing under the following conditions and for the following periods of time:

— ambient temperature: 23 °C ± 2 °C for at least 48 h;

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