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Interior air of road vehicles —

Part 12: Test methods for the determination of fogging characteristics of trim materials made from polyvinyl chloride (PVC) or polyurethane in the interior of automobiles

Air intérieur des véhicules routiers —

Partie 12: Méthodes d'essai pour la détermination des caractéristiques d'embuage des matériaux de garnissage en polyvinylchlorure (PVC) ou en polyuréthane dans l'habitacle automobile

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Foreword

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Interior air of road vehicles —

Part 12: Test methods for the determination of fogging characteristics of trim materials made from polyvinyl chloride (PVC) or polyurethane in the interior of automobiles

1 Scope

This document specifies test methods which are intended to determine the fogging characteristics of polyvinyl chloride (PVC) or polyurethane textiles that are used as trim materials in the interior of motor vehicles.

The methods can also be applied to fluid, paste, powdered or solid raw materials which are the basis for such trim materials or from which the materials are manufactured. The methods can also be applied to other materials and finished products.

The procedures are applicable to the measurement of fog condensate on glass surfaces within the limits of the test conditions. These tests do not or cannot measure accurately those cases in which:

— the surface tension of the condensate is low, resulting in early coalescing into a thin transparent film;

— the condensate is present in such a large quantity that the droplets coalesce and form a heavy oily/clear film (this heavy film gives false readings).

NOTE In such cases, the gravimetric method is used.

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 2813, *Paints and varnishes — Determination of gloss value at 20°, 60° and 85°*

3 Terms and definitions

No terms and definitions are listed in this document.

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

A test specimen is heated in a glass beaker. Any volatile constituents are condensed on either a cooled glass plate or a disc of cooled aluminium foil.

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