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F, Resilient floor coverings -Heterogeneous poly(vinyl chloride) flooring on foam — Specification

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

itte ISO 11638 was prepared by Technical Committee ISO/TC 219, Floor coverings.

Resilient floor coverings — Heterogeneous poly(vinyl chloride) flooring on foam — Specification

1 Scope

This International Standard specifies the characteristics of heterogeneous poly(vinyl chloride) flooring on foam, based on poly(vinyl chloride), and supplied in roll form or tile. Such products can contain a transparent, non-PVC factory finish.

To encourage the consumer to make an informed choice, this International Standard includes a classification system, based on intensity of use, which shows where these floor coverings can be expected to give satisfactory service.

It also specifies requirements for marking.

2 Normative references

The following referenced documents are indispensable for the application 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 105-B02:—¹⁾, Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test

ISO 4918, Resilient, textile and laminate floor coverings - Castor chair test

ISO 10874, Resilient, textile-and laminate floor covering — Classification.

ISO 23997, Resilient floor coverings — Determination of mass per unit area

ISO 23999, Resilient floor coverings — Determination of dimensional stability and curling after exposure to heat

ISO 24340, Resilient floor coverings — Determination of thickness of layers

ISO 24341, Resilient and textile floor coverings — Determination of length, width, and straightness of sheet

ISO 24342, Resilient and textile floor coverings — Determination of side length, edge straightness and squareness of tiles

ISO 24343-1, Resilient and laminate floor coverings — Determination of indentation and residual indentation — Part 1: Residual indentation

ISO 24343-2, Resilient and laminate floor coverings — Determination of indentation and residual indentation — Part 2: Short-term residual indentation of resilient floor covering

ISO 24344, Resilient floor coverings — Determination of flexibility and deflection

ISO 24345, Resilient floor coverings — Determination of peel resistance

ISO 24346, Resilient floor coverings — Determination of overall thickness

EN 424, Resilient floor coverings — Determination of the effect of simulated movement of a furniture leg

EN 684, Resilient floor coverings — Determination of seam strength

EN 1372, Adhesives — Test method for adhesives for floor and wall coverings — Peel test

¹⁾ To be published. (Revision of ISO 105-B02:1994)

ASTM F1515, Standard test method for measuring light stability of resilient flooring by color change

3 Terms and definitions

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

3.1

heterogeneous floor covering on foam

floor covering consisting of a wear layer and other solid layers on a foam backing

3.2

poly(vinyl chloride) floor coverings on foam

floor covering with surface layers which are produced using poly(vinyl chloride) as the binder

3.3

wear layer

layer of the floor covering directly exposed to wear

3.4

factory finish

transparent coating applied during the manufacture, usually not thicker than 0,05 mm

3.5

binder content

portion of the flooring composition consisting of poly(vinyl chloride) (PVC) resin, plasticizers and stabilizers

NOTE It is expressed as a percentage mass fraction of the total composition.

3.6

seam strength

maximum tensile force recorded, for a defined width, when a floor covering is tested under a constant rate of separation

3.7

plank

planks satisfy both less than 250 mm in width and a width-to-length ratio of more than 1:3

4 Requirements

4.1 Identification requirements

Products described in this International Standard are identified by wear-layer binder content and shall be in accordance with Table 1.

Table 1 — Identification requirements

Туре	Wear-layer binder content
I	≥ 80
II	≥ 30

4.2 General requirements

Floor coverings shall conform to the appropriate general requirements specified in Table 2 when tested in accordance with the methods given therein.