
**Resilient floor coverings —
Specification for floor coverings based
on thermoplastic polymers**

*Revêtements de sol résilients — Spécifications pour revêtements de
sol à base de polymères thermoplastiques*



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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.

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

This document was prepared by Technical Committee ISO/TC 219, *Floor coverings*.

Resilient floor coverings — Specification for floor coverings based on thermoplastic polymers

1 Scope

This document specifies the characteristics for resilient floor coverings based upon thermoplastic polymers, supplied either in roll, plank or tile form.

To encourage the consumer to make an informed choice, this document includes a classification system (see ISO 10874) based on intensity of use, which shows where these floor coverings should give satisfactory service. It also specifies requirements for marking.

This specification does not apply to floor coverings specified in ISO 10581, ISO 10582, ISO 10595, ISO 11638, ISO 10575, ISO 10577, ISO 24011 and ISO 26986.

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 105-B02, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*

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

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

ISO 9405, *Textile floor coverings — Assessment of changes in appearance*

ISO 10874, *Resilient, textile and laminate floor coverings — Classification*

ISO 16581, *Resilient and laminate floor coverings — Determination of the effect of simulated movement of a furniture leg*

ISO 16906, *Resilient floor coverings — Determination of seam strength*

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

ASTM F 1515, *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.

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>

3.1
homogeneous floor covering
floor covering with one or more layers of the same composition and colour, patterned throughout its thickness

3.2
heterogeneous floor covering
floor covering consisting of a *wear layer* (3.8) and other layer(s) which differ in composition and/or design and can contain a reinforcement

3.3
factory finish
transparent coating applied during the manufacture, usually not thicker than 0,03 mm not using *thermoplastic polymer* (3.6) as base resin

Note 1 to entry: This coating should not be counted as part of the *wear layer* (3.8).

3.4
product with backing
homogeneous (3.1) or a *heterogeneous floor covering* (3.2) with a backing of any material different from the upper layers or a backing made with a foamed layer

Note 1 to entry: Typical example backings include materials such as cork, foams, polyester or jute.

3.5
scratch
permanent damage or mark on the surface of the floor covering made with a sharp or pointed object

3.6
thermoplastic polymer
polymers that become liquid when heated above T_g (glass transition temperature) or T_m (melting temperature) and return to the solid state when cooled

Note 1 to entry: This cycle of melting and freezing can be repeated.

3.7
plank
tile with a ratio length divided by width superior or equal to 1,3

3.8
wear layer
portion of a resilient floor covering that contains or protects the pattern and design exclusive of temporary *factory finishes* (3.3) or maintenance coating(s)