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Hållbarhet – **Metod för bedömning av tillförlitlighet hos tvättmaskiner för hushållsbruk**

Durability –

Measurement method for the assessment of the reliability of washing machines for household use

Som svensk standard gäller europastandarden EN 50731:2025. Den svenska standarden innehåller den officiella engelska språkversionen av EN 50731:2025.

ICS 35.110

Denna standard är fastställd av SEK Svensk Elstandard, som också kan lämna upplysningar om **sakinnehållet** i standarden.
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English Version

Durability - Measurement method for the assessment of the reliability of washing machines for household use

Durabilité - Méthode de mesure pour l'évaluation de la fiabilité des machines à laver pour usage domestique

Funktionsbeständigkeit - Messverfahren zur Bewertung der Zuverlässigkeit von Waschmaschinen für den Hausgebrauch;

This European Standard was approved by CENELEC on 2025-05-27. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

This document (EN 50731:2025) has been prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2026-06-30
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2028-06-30

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Introduction

As energy-related products (ErP) can often not be completely recycled, and the benefits associated with material recovery cannot fully compensate the energy and material demand of the whole production chain, each disposed ErP also means losses in energy and materials. Therefore, increasing the durability of ErPs can contribute to a reduction in the quantity of raw materials used and energy required for the production and end-of-life treatment of ErPs and consequently reduces adverse environmental impacts.

Due to the general longevity of washing machines and their long-running hours per annum, the assessment of the reliability of these products can be very time-consuming and costly. Methods and approaches that may be used to quantify these aspects are included in this document. The transportation and storage of washing machines is usually considered as a separate aspect from the durability and reliability of the product. It is generally expected that the product will arrive at the end consumer in a state where it can fulfil its intended function.

The procedure described in this document is under consideration in light of a validation test being conducted at the time of writing this document.

The validation test is conducted via APPLiA Home Appliances Europe

1 Scope

This document provides a measurement method to assess the reliability of washing machines for household use. This document defines the functional analysis, limiting events/states, environmental conditions and test conditions of washing machines. It also elaborates on the level of confidence on the measurement results.

NOTE 1 The method is based on EN 45552 (General method for the assessment of the durability of energy-related products) and takes into account EN 45554 (General methods for the assessment of the ability to repair, reuse and upgrade energy-related products).

This document provides information about the interrelations of reliability, repairability and upgradeability with consideration towards a durability assessment for washing machines for household use.

This document provides input/results about the investigation on the assessment of repairability and upgradeability for washing machines for household use.

This document is not intended to be used to assess the reliability of:

- washing machines, intended for commercial or industrial use;
- washer-dryers.

NOTE 2 A testing method for washing machines unable to provide heated washing programmes have a low market relevance and will be considered in a future edition of this standard.

This document does not address the ability of washing machines to be reused.

Product functions related to the safety of washing machines are out of the scope of this document.

NOTE 3 EN 60335-2-7 addresses safety requirements for household appliances. It includes aging tests that are relevant to safety.

This document is intended to be used for the validation of a reliability declaration.

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.

EN 60456:2016,¹ *Clothes washing machines for household use - Methods for measuring the performance*

¹ As impacted by EN 60456:2016/A12:2023.