



BSI Standards Publication

Material efficiency — Household and similar electrical appliances — Assessment of applicability of EN 4555X

National foreword

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The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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TECHNICAL REPORT

CLC/FprTR 50727

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

June 2022

ICS

English Version

Household and similar electrical appliances - Material Efficiency - Assessment of applicability of EN 4555X

Appareils électriques ménagers et analogues
- Efficience matérielle- Évaluation de
l'applicabilité de las normes EN 4555X

Elektrische Geräte für den Hausgebrauch
und ähnliche Zwecke - Materialeffizienz -
Bewertung der Anwendbarkeit von EN 4555X

This draft Technical Report is submitted to CENELEC members for vote by correspondence.

Deadline for CENELEC: 2022-03-04.

It has been drawn up by the Technical Committee CLC/TC 59X.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a Technical Report. It is distributed for review and comments. It is subject to change without notice and shall not be referred to a Technical Report.

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European foreword

This document (CLC/FprTR 50727:2021) has been prepared by CLC/TC 59X “Performance of household and similar electrical appliances”.

This document is currently submitted to voting in accordance with the Internal Regulations, Part 2, Subclause 11.4.3 (simple majority) for acceptance as a CENELEC Technical Report.

Introduction

Material efficiency is one building block of a circular economy. To increase the material efficiency of products, different aspects like durability, reparability, reusability, remanufacturability, recyclability and recycled materials content need to be assessed. The horizontal standards of the EN 4555X series provide a general methodology of assessing different material efficiency aspects of energy-related products. These horizontal documents need to be adapted in order to be applicable for specific products / product groups.

1 Scope

This document summarizes the observations on the EN 4555X series of standards in view to applying them to household and similar electrical appliances.

This document assesses the applicability of EN 45552 – EN 45559 to household and similar electrical appliances that are in the scope of Ecodesign (2009/125/EC).

NOTE EN 45552, EN 45553, EN 45554, EN 45555, EN 45556, EN 45557, EN 45558 and EN 45559 are referred to as the EN 4555X series of standards to increase readability.

This document highlights where further work on metrics and measurement methodologies is necessary or may be needed for household and similar electrical appliances beyond each of the EN 4555X series of standards listed in [Clause 5](#).

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.

CLC/TR 45550, *Definitions related to material efficiency*

EN 45556, *General method for assessing the proportion of reused components in energy-related products*

EN 45559, *Methods for providing information relating to material efficiency aspects of energy-related products*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in CLC/TR 45550 apply. In the absence of a definition in CLC/TR 45550, the user of this document may refer to the following sources:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

4 General considerations

The considerations on applying the EN 4555X series of standards to household and similar electrical appliances have been developed using the following methodology:

- The respective standards have been checked for normative requirements;
- The normative requirements have been discussed in light of applicability to household and similar electrical appliances;
- The need for generic adaptation and product specific adaptation have been identified;
- For EN 45554:2020, reparability has been taken as a proxy for the considerations presented in [5.3](#). These considerations apply to reuseability and upgradeability, too.

EXAMPLE: