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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Guidelines for the testing and evaluation of functional materials
in household and similar electrical appliances**

家用和类似用途电器中功能材料测试与评价指南

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Household Electrical Appliances (SAC/TC46).

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Introduction

Functional materials are increasingly used in household appliances. At present, there is a lack of domestic research and development based on the current status of the household appliance industry and product characteristics.

This document provides guidance for home appliance companies to reasonably select and safely use functional materials during product development.

The guidance is conducive to the integration of upstream and downstream of the home appliance industry chain and the high-quality development of the industry.

This document will be improved as research progresses.

Testing and application of functional materials in household and similar electrical appliances Evaluation Guidelines

1 Scope

This document provides the basic principles and methods for testing and evaluating functional materials in household and similar electrical appliances (hereinafter referred to as "household appliances").

It provides guidance on the typical applications of functional materials in household appliances.

This document applies to the testing and evaluation of functional materials in household appliances during the research and development, design, selection and delivery process.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Functional materials for household and similar electrical appliances

It has special properties in electricity, magnetism, sound, light, heat, force, microorganisms, etc. or exhibits specific functions under its action, and is used to improve existing The inherent functions of home appliances, or materials that embody specific functions.

Note 1.Abbreviated as "functional materials".

Note 2.Materials that only enhance inherent functions or embody specific functions through macrostructural design are not within the scope of this definition.

3.2

Functional materials based on metals or metal alloys.

3.3

Functional materials based on non-metallic inorganic substances.

Note. Examples of inorganic non-metallic substances include oxides, nitrides, carbides, silicates, etc.

3.4

Functional materials based on high molecular weight compounds (polymers).

3.5

Functional materials composed of two or more components with different properties (metals, inorganic non-metals, polymers, etc.).

3.6 hazard identification

The process of discovering, listing, and describing risk factors.

[Source. GB/T 39011-2020, 3.4]