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

GB/T 40426.3-2021

**Plastics - Decorative solid surfacing materials - Part 3:
Determination of properties - Non-sheet solid surfacing
material**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Standardization Work Leads Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document is Part 3 of GB/T 40426 "Plastic Decorative Solid Surface Materials". GB/T 40426 has released the following parts.

---Part 1. Classification and specification;

---Part 2. Determination of performance of plate-shaped solid surface materials;

---Part 3. Determination of performance of non-plate solid surface materials.

This document uses the redrafting method to modify and adopt ISO 19712-3:2007 "Plastic products decorative solid surface materials Part 3. Performance

Determination of the surface of a modeling entity.

The technical differences between this document and ISO 19712-3:2007 and the reasons are as follows.

---Regarding normative reference documents, this document has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows.

* Use GB/T 3398.1, which is equivalent to the international standard, instead of ISO 2039.1 (see Chapter 13);

* Use GB/T 3398.2, which is equivalent to the international standard, instead of ISO 2039.1 (see Chapter 13);

* Use GB/T 16422.1, which is equivalent to the international standard, instead of ISO 4892-1 (see 7.3.1);

* Use GB/T 16422.2-2014, which is equivalent to the international standard, instead of ISO 4892-2:2006 (see 7.3.1);

* Use GB/T 3854 instead of ASTM D2583 (see Chapter 13);

* Deleted ISO 105-A02 (see 7.1.4 and 7.1.5 of ISO 19712-3:2007);

* Deleted ISO 105-B02 (see 7.1.4 of ISO 19712-3:2007);

* Deleted ISO 209:2007 (see 10.2.3.2 and 11.2.3.2 of ISO 19712-3:2007);

* Deleted ISO 1770 (see 10.2.3.1 and 11.2.3.1 of ISO 19712-3:2007);

* Deleted ISO 3668 (see 10.2.3.5 and 11.2.3.5 of ISO 19712-3:2007);

* Deleted ISO 4211:1979 (see 10.2.4 and 11.2.4 of ISO 19712-3:2007);

* Deleted ISO 4892:1981 (see 7.3.1, 7.3.2, 7.3.3 and 7.3.4 of ISO 19712-3:2007);

* Deleted ISO 9370 cited by ISO 19712-3:2007 (see 7.1.2.1 of ISO 19712-3:2007);

* Deleted ASTM D2244 cited in ISO 19712-3:2007 (see 10.3.2 of ISO 19712-3:2007);

--- Deleted method A and method C in the light fastness test (see 7.1 and 7.3 in ISO 19712-3:2007) to meet our requirements.

The actual use and performance evaluation of domestic solid surface products to avoid confusion;

--- Deleted method A in the anti-pollution/chemical reagent resistance test (see 8.1 in ISO 19712-3:2007); modified method B

Some types of pollutants (see Table 2 in 8.2.6), the pollution steps and cleaning steps in Method B are modified (see 8.5.1, 8.5.2),

Clarified the types and conditions of test reagents to facilitate the correct implementation of the anti-fouling test;

--- Deleted the method B in the cigarette burn resistance test (see 9.2 in ISO 19712-3:2007) to meet the requirements of my country's solid surface material production

The actual use and performance evaluation of the product to avoid confusion;

---Deleted method B and method C in the dry heat resistance test (see 10.2, 10.3 in ISO 19712-3:2007) to meet my country's actual

The actual use and performance evaluation of decent material products to avoid confusion;

--- Deleted the method B in the heat and humidity resistance test (see 11.2 in ISO 19712-3:2007) to meet the requirements of my country's solid surface material products.

To avoid confusion in interpretation of the situation of international use and performance evaluation.

This document has made the following editorial changes.

---Modified the standard name.

Introduction

This document is intended for use by manufacturers of decorative solid surface materials, assemblers, construction parties and design units.

The proposed test method and its performance requirements are closely related to the use of the product. The installation method and process may affect the performance of the product.

Health impact.

Performance requirements include, but are not limited to, impact resistance to falling balls, color fastness to light, resistance to cigarette burning, stain resistance, resistance to dry heat, resistance to heat and humidity, and resistance to cold

Hot water circulation, hardness, repairability and other important properties.

GB/T 40426 consists of three parts.

---Part 1.Classification and specification. The purpose is to specify the performance requirements of decorative solid surface materials.

---Part 2.Determination of performance of plate-shaped solid surface materials. The purpose is to specify the test method for plate-type solid surface materials.

---Part 3.Determination of performance of non-plate solid surface materials. The purpose is to specify the test method for non-plate solid surface materials.

Decorative solid surface material for plastic products

Part 3.Determination of performance of non-plate solid surface materials

1 Scope

This document describes the test methods for various properties of non-plate solid surface materials.

This document applies to materials specified in GB/T 40426.1.

These methods can be used to test non-plate solid surface products, but the test is generally carried out on a flat plate whose size meets the test requirements; the measured

The tested flat material and surface treatment should be the same as the non-plate solid surface material.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

GB/T 3398.1 Plastic Hardness Determination Part 1.Ball Indentation Method (GB/T 3398.1-2008, ISO 2039-1.2001,

IDT)

GB/T 3398.2 Determination of Plastic Hardness Part 2.Rockwell Hardness (GB/T 3398.2-2008, ISO 2039-2.1987,

IDT)

GB/T 3854 Barcol Hardness Test Method for Reinforced Plastics

GB/T 16422.1 Plastic Laboratory Light Source Exposure Test Method Part 1.General (GB/T 16422.1-2019,

ISO 4892-2.2016, IDT)

GB/T 16422.2-2014 Plastic laboratory light source exposure test method Part 2.Xenon arc lamp (ISO 4892-2.2006,

IDT)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1