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

GB/T 40426.2-2021

**Plastics - Decorative solid surfacing materials - Part 2:
Determination of properties - Sheet solid surfacing material**

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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 of Standardization Documents"

Drafting.

This document is Part 2 of GB/T 40426 "Decorative Solid Surface Materials for Plastic Products". GB/T 40426 has released the following

part.

---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 19712-2:2007 "Plastic products decorative solid surface material Part 2. Performance

Determination of the sheet".

The technical differences between this document and ISO 19712-2:2007 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.

- * Replace ISO 4892-1 (see 9.3) with GB/T 16422.1 which is equivalent to adopting international standards;
- * Replace ISO 4892-2:2006 (see 9.3) with GB/T 16422.2-2014 equivalent to the international standard;
- * Replace ISO 2039-1 with GB/T 3398.1 which is equivalent to the international standard (see Chapter 15);
- * Replace ISO 2039-2 with GB/T 3398.2, which is equivalent to the international standard (see Chapter 15);
- * Replace ISO 19712-1 (see 8.4) with GB/T 40426.1-2021 modified to adopt international standards;
- * Replace ASTM D2583 with GB/T 3854 (see Chapter 15);
- * Deleted ISO 209:2007 (see 12.2.3.2 and 13.2.3.2 of ISO 19712-2:2007);
- * Delete ISO 1770 (see 12.2.3.1 and 13.2.3.1 of ISO 19712-2:2007);
- * Delete ISO 3668 (see 12.2.3.5 and 13.2.3.5 of ISO 19712-2:2007);
- * Deleted ISO 4211:1979 (see 12.2.4 and 13.2.4 of ISO 19712-2:2007);
- * Deleted ISO 4892:1981 (see ISO 19712-2:2007, 9.3);
- * Delete ISO 9370 (see 9.1.2.1 of ISO 19712-2:2007);
- * Deleted ASTM D2244 (see 12.3.2 of ISO 19712-2:2007);

--- Deleted "7.4 Performance Requirements" to avoid duplication with the load performance requirements in Part 1 of GB/T 40426;

--- Deleted "9.1 Method A" and "9.3 Method C" in the "9 Light Fastness" test to meet the requirements of my country's solid surface products

Actual use and performance evaluation to avoid confusion in interpretation;

--- Deleted "10.1 Method A" in "10 Antifouling" test; revised "10.2.2 Material" in "10.2 Method B", including

"10.2.8 Pollutants"; "10.2.3 Equipment", "10.2.5 Steps", "10.2.6 Result Expression" and "10.2.7

Test report"; "10.2.6.2 Pollution resistance" is deleted, and the types and conditions of test reagents are clarified to facilitate the anti-fouling test

Correct implementation;

--- Deleted "11.2 Method B" in the "11 Cigarette Burning Resistance" test to meet the actual use and performance of my country's solid surface products

Can evaluate the situation and avoid confusion in interpretation;

--- Deleted "12.2 Method B" and "12.3 Method C" in the "12 Dry Heat Resistance" test 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 "13.2 Method B" in the test of "13 Moisture and Heat Resistance" to comply with the actual use and performance of my country's solid surface products

Can evaluate the situation and avoid confusion in interpretation.

This document has made the following editorial changes.

---Modified the standard name.

Introduction

This section is intended for 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, color and finish, appearance quality, resistance to dry heat, resistance to humidity, falling ball impact, stain resistance, and light resistance

Color fastness, cigarette burning resistance, resistance to cold and hot water circulation, load test, 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 2.Determination of performance of plate-type solid surface materials

1 Scope

This document describes the test methods for each performance of plate-type solid surface materials.

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

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

The flat plate material and surface treatment are the same as the plate-shaped 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.Guidelines (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,