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

GB/T 46606.1-2025

**Plastics - Melamine/phenolic powder moulding compounds
(MP-PMCs) - Part 1: Designation system and basis for
specifications**

**塑料 粉状三聚氰胺/酚醛模塑料 (MP-PMCs) 第1部分：命名系统和分类基础
(English Translation)**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 1 of GB/T 46606 "Powdered melamine/phenolic molding compounds (MP-PMCs)".

The following sections have been released.

---Part 1: Naming Systems and Classification Basics;

---Part 2: Sample Preparation and Performance Determination;

---Part 3: Requirements for Selecting the Molding Compound.

This document is modified to adopt ISO 14529-1:1999 "Plastics - Powdered melamine/phenolic molding compounds (MP-PMCs) - Part 1: Description of the contents".

Name system and classification basis.

This document has undergone the following structural adjustments compared to ISO 14529-1:1999.

---Table 2 corresponds to Table 1 in ISO 14529-1:1999;

---Table 3 corresponds to Table 2 in ISO 14529-1:1999;

---Table 4 corresponds to Table 3 in ISO 14529-1:1999.

The technical differences between this document and ISO 14529-1:1999, and the reasons therefor, are as follows.

---ISO 14529-2 has been replaced by the normatively referenced GB/T 46606.2, and ISO 472 has been replaced by GB/T 2035 (see Chapter 3).

To adapt to my country's technological conditions and increase operability;

---Change the content required in the note to a paragraph (see 4.2) to adapt to my country's technical conditions and meet the requirements for drafting Chinese standards;

---ISO 1043-1:1997 has been replaced by the normatively referenced GB/T 1844.1-2022 (see 4.1, 4.2), and the two documents are...

The consistency level has been modified to adapt to my country's technical conditions and increase operability;

---ISO 1043-2 (see 4.1, 4.2) has been replaced with the normatively referenced GB/T 1844.2 to adapt to my country's technical conditions, and has been added.

Operability;

---ISO 179-1 (see 4.1, 4.4.3) has been replaced with the normatively referenced GB/T 1043.1 to adapt to my country's technical conditions, and the following has been added.

Operability;

---ISO 75-2 (see 4.1, 4.4.4) has been replaced with the normatively referenced GB/T 1634.2 to adapt to my country's technical conditions, and the following has been added.

Operability.

The following editorial changes have been made to this document.

---ISO 14529-3 has been replaced by GB/T 46606.3, which is cited in the informational reference.

---A note has been added for the term "powdered molding compound" (see 3.1).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Plastics Standardization (SAC/TC15).

Introduction

Powdered melamine/phenolic molding compounds have wide applications in electronics, automotive parts, and daily necessities. Developing formulations suitable for my country...

The national standards for powdered thermosetting molding compounds aim to improve the standard system, regulate product manufacturing, and promote technological progress. They also benefit the country's...

International exchanges and elimination of trade barriers.

GB/T 46606 "Powdered melamine/phenolic molding compounds (MP-PMCs)" is proposed to consist of three parts.

---Part 1: Nomenclature System and Classification Basis. The aim is to define the classification and nomenclature of powdered melamine/phenolic molding compounds.
rule.

---Part 2: Specimen Preparation and Performance Testing. The aim is to provide specimen preparation methods for evaluating the properties of powdered melamine/phenolic molding compounds.

Test methods and sample preparation methods.

---Part 3: Requirements for Selected Molding Compounds. The aim is to select six typical types of powdered melamine/phenolic molding compounds and specify their requirements.

Mechanical properties, thermal properties, electrical properties and other performance requirements.

Powdered melamine/phenolic molding compound (MP-PMCs) Part 1: Naming System and Classification Basics

1 Scope

This document specifies a character group system for naming powdered melamine/phenolic molding compounds (MP-PMCs).

This document applies to all general-purpose MP-PMCs in powder, granular, or ground form.

Note 1: Various models of MP-PMC are named according to the type and content of filler/reinforcing materials, molding and processing methods, special properties, and other designations.

A classification system for information such as special performance (characteristic performance) is used to distinguish them.

Note 2: Materials with the same name do not necessarily have the same properties. This document does not provide engineering specifications for material forming, processing, or specific applications.

Data, performance data, or processing condition data. If such additional performance data is required, use the appropriate test methods specified in GB/T 46606.2.

The test method was used for determination.

Note 3: This character set system is also used in situations where it is necessary to specify the general performance covered by GB/T 46606.3.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 1043.1 Determination of impact properties of simply supported plastic beams - Part 1: Non-instrumental impact testing (GB/T 1043.1-2008, ISO 179-1:2000, IDT) GB/T 1634.2 Determination of temperature of deformation under load for plastics - Part 2: Plastics and hard rubber (GB/T 1634.2-2019) ISO 75-2:2013, MOD) GB/T 1844.1-2022 Plastics symbols and abbreviations - Part 1: Basic polymers and their characteristic properties (ISO 1043-1.

2011, MOD)

GB/T 1844.2 Plastic symbols and abbreviations - Part 2: Fillers and reinforcements (GB/T 1844.2-2022) ISO 1043-2:2011, IDT GB/T 2035 Plastics Terminology (GB/T 2035-2024, ISO 472:2013, NEQ) GB/T 46606.2 Powdered melamine/phenolic molding compounds (MP-PMCs) - Part 2: Specimen preparation and performance determination (GB/T 46606.2-2025, ISO 14529-2:1999, MOD)

3 Terms and Definitions

The terms and definitions defined in GB/T 2035 and GB/T 46606.2, as well as the following terms and definitions, apply to this document.

Powdered, granular, or ground materials that can flow freely in the feeding system of molding and processing equipment.

Note: Thin sheet-like materials are generally not considered powder molding compounds. The counterparts to powder molding compounds (PMC) are block molding compounds (BMC) and sheet molding compounds (SMC).

Powdered molding compound with melamine/phenolic resin as the base material, suitable for injection molding and compression molding.