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

GB/T 3403.3-2013

Replacing GB 13454-1992

**Plastics -- Urea-formaldehyde and urea/melamine-formaldehyde
powder moulding compounds (UF-and UF/MF-PMCs) -- Part 3:
Requirements for selected moulding compounds**

塑料 粉状脲-甲醛和脲/三聚氰胺-甲醛模塑料 (UF-和UF/MF-PMCs) 第3部分: 选
定模塑料的要求

(English Translation)

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Foreword

GB/T 3403 "Plastic powdered urea - formaldehyde and urea/melamine - formaldehyde molding compounds (UF- and UF/MF-PMCs)" is divided into three parts.

- Part 1. Designation system and basis;
- Part 2. Sample preparation and performance measurement;
- Part 3. Selected plastic molding requirements.

This section GB/T 3403 Part 3.

This section Press GB/T 1.1-2009 given rule drafting.

This section and GB/T 3403 "Plastic powdered urea - formaldehyde and urea/melamine - formaldehyde molding compounds (UF- and UF/MF-PMCs)" of Part 3, GB/T 13454 "plastic powdered melamine - formaldehyde molding compounds (MF-PMCs)" Part 3 together instead of GB/T 13454-1992 "amino molding plastic." Compared with GB 13454-1992 main modifications are as follows.

- Standard name changed. Plastic powdered urea - Part 3 formaldehyde molding compounds (UF- and UF/MF-PMCs) - formaldehyde and urea/melamine Score. plastic molding requirements selected;
- Modify the "Technical Data" (see Table 1);
- "Reference standard" to "Normative references" (see Chapter 2) will be a chapter.

This part redrafted Law Amendment uses ISO 14527-3:1999. "Plastic powdered urea - formaldehyde and urea/melamine formaldehyde molding Plastic (UF- and UF/MF-PMCs) - Part 3. Requirements for selected molding compounds. " this part of ISO 14527-3. compared to 1999, an increase of three chapters in the structure (see Chapter 6, 7).

1999 following technical differences and their causes, the terms of these differences have been involved in the outside by page. This part of ISO 14527-3 Vertical singlet margin

position (I) were marked.

--- On normative references, this part has been adjusted technical differences, in order to adapt our technical conditions, the adjusted situation Focus is reflected in the status of Chapter 2, "Normative references", the specific adjustments are as follows.

- equivalents adoption of international standards GB/T 2035 instead of ISO 14527-3:1999 references ISO 472:1999 (see paragraph 3 chapter);

- Because it is not normative references, delete the ISO 14527-3:1999 references ISO 2112:1990 (see Chapter 2);

- Added references GB/T 2547 (see 6.2.2);

- equivalents adoption of international standards GB/T 3403.1-2008 instead of ISO 14527-3:1999 references ISO 14527-1:1999 (see Chapters 3 and 4.2);

- Modify with international standards of GB/T 3403.2-2013 instead of ISO 14527-3:1999 references ISO 14527-2:1999 (see Chapter 3 and Chapter 5).

--- Table 1, an increase of 5 to 8 class, reason. because most countries manufacturers are not producing ISO 14527-3:1999 stipulated the types of products, thus increasing the Class 5 to Class 8, where the class 5 and 6 correspond to the products of domestic manufacturers A3, Category 5 is used in electrical product categories; Class 7 and 8 correspond to the products of domestic manufacturers A1, Class 7 for the application in electrical class products and services. After Categories modify the basic standard that covers various domestic and powdered urea - formaldehyde and urea /Melamine - formaldehyde molding compound (see Table 1).

--- Table 1 "combustion properties (hot rod)" to "flammable" because. ISO 14527-2:1999 test method is used IEC 60695-11-10 ". 50W horizontal and vertical flame test methods - Part 11-10 Fire hazard testing." And this standard Quasi corresponding to ISO 14527-3:1999, the requirements of its provisions should correspond with the test method, the "hot rod" is estimated to ISO standard Editorial errors (see Table 1 in 3.3).

--- Table 1 "dielectric loss factor tandelta100" was changed to "dielectric loss factor tandelta1M", because. Due to our current phase Off laboratories in the detection of the project are used the "dielectric loss factor tandelta1M" (see Table 1 in 4.1).

--- Table 1, an increase of "electric strength Es" project, because. As with ISO 14527-3:1999 supporting ISO 14527-2.

In 1999 the project to maintain consistency in standards and supporting the use of standards can increase the project (see Table 1 in 4.5).

--- Added "Test Method", "inspection rules," "Signs, packaging, transportation, storage," chapters (see Chapter 6, 7).

This section also made the following editorial changes.

--- Chapter 2, the words "Normative references" adds normative language reference guide.

--- Modify the informative Appendix A.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Technical Committee of Standardization Technical Committee plastic thermosetting plastics (SAC/TC51/SC11) centralized.

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This part of the standard replaces the previous editions are.

--- GB 13454-1992.

Plastic powdered urea - formaldehyde and urea/melamine -Formaldehyde molding compounds (UF- and UF/MF-PMCs) Part 3. Requirements for selected molding compounds

1 Scope

GB/T 3403 provisions of this part of the powdered urea - formaldehyde and urea/melamine - formaldehyde molding compounds (UF- and UF/MF-PMCs) to Requirements, test methods, inspection rules, marking, packaging, transportation and storage.

This section applies to powdered urea - formaldehyde and urea/melamine - formaldehyde molding compound, international and national standards in UF and UF/MF-PMCs naming controls in Appendix A.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2035 plastic Terms and definitions (GB/T 2035-2008, ISO 472:1999, IDT) GB/T 2547 plastic sampling method GB/T 3403.1-2008 Plastics powdered urea - formaldehyde and urea/melamine - formaldehyde molding compounds (UF- and UF/MF-PMCs) first Part 1. Designation system and basis for classification (ISO 14527-1:1999, IDT) GB/T 3403.2-2013

Plastics powdered urea formaldehyde and urea/melamine - formaldehyde molding compound (UF and UF/MF-PMCs) first Part 2. Sample preparation and performance tests (ISO 14527-2:1999, IDT)

3 Terms and Definitions

GB/T 2035, the terms and definitions GB/T 3403.1-2008 and GB/T 3403.2-2013 defined in this document apply.

4 Requirements

4.1

contains (LD MD), (WD MD) or (LF S) as a filler of UF and UF/MF-PMCs performance requirements 4.1.1 shall comply with the requirements in Table 1.

4.1.2

Table 1 gives the average of a set of samples for a particular performance. The single table 2.1,2.2,2.3 and 2.4 Performance Deviation from the mean value should be less than 10%, a single value 3.1 and 3.2 performance deviates from the average value should be less than 5 °C.

4.1.3

Rheological properties and processing performance is not clearly defined. However, a suitable rheological properties and processing properties of the molding compound is a good use very important. The two sides should reach agreement on the relevant test methods and test conditions used.

4.1.4

For some applications, there may be some other useful properties, such as.

--- Curing time;

--- Particle size;

--- Moisture content.

If this is the case, and the performance of these test methods and test conditions used shall be agreed between the two parties concerned.