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

GB/T 8324-2008

Replacing GB/T 8324-1987

Plastics -- Determination of bulk factor of moulding materials

塑料 模塑材料体积系数的测定

(English Translation)

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Foreword

This standard is identical with ISO 171. 1980 "Determination of the plastic molding material --- coefficient of volume" (in English).

This standard is equivalent translation ISO 171. 1980, the same technical content.

To facilitate the use of ISO 171. 1980 made the following editorial changes.

- The "this International Standard" by "this standard";
- Remove the ISO 171 foreword, preface to increase the national standards;
- The "normative references" in a chapter of an international standard with the national standards adopted in place of the file, delete the ISO 554.
- 1976 "for conditioning and/or testing standards of environmental norms";
- Chapter 4, "the apparent density and density calculations required volume factor should be measured at the same temperature ISO 554 stipulated" to "The apparent density and the density coefficient to calculate the volume required to be measured at the same temperature";
- Chapter 6 plus "test results taken two significant figures." this standard replaces GB/T 8324-1987 "Test Method for molding plastic volume factor." this standard and GB/T 8324-1987 The main differences are as follows.
- Change the standard name, increasing the foreword;
- Increase the scope, normative references, test temperature.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee of plastic products and plastic resins General Methods Chapter (SAC/TC15/SC4) centralized.

1 Scope

This standard specifies the method for the determination of density and apparent density of molding the molding material when not molded after volume factor.

Molding material volume factor is to calculate the minimum volume of the mold cavity design basic data.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

1033.1-2008 non-plastic foam density measurement GB/T Part 1. Immersion method, liquid pyknometer method and titration method (ISO 1183.1:2004, IDT)

1977 Determination of the plastic material flowing from the provisions of the funnel Apparent density. ISO 60

1977 Determination of the plastic can not flow from the provisions of the funnel material apparent density. ISO 61

3 Terms and Definitions

The following terms and definitions apply to this standard.

Volume ratio of volume after its molding quantification of the molding material.

Note: The ratio of the density of the apparent density of molding material and molding it is also not the time of molding after.

4 Test temperature

Apparent density and density calculations required volume factor should be measured at the same temperature.

5 Steps

5.1

according to ISO 60. 1977 or ISO 61. 1977 Determination of apparent density of molding material is not.

5.2

according to GB/T 1033.1-2008 Determination of density after molding material.

6 The results are shown According to equation (1) to calculate the volume coefficient of plastic molding.

ρ_{hou}

Where.

--- ρ_{PM} density of material after molding, in grams per milliliter (g/mL);

ρ_{hou} --- No apparent density of the molding material, in grams per milliliter (g/mL).

Test results take two significant figures.

Note: In calculating the volume factor, after molding density would be its relative density (water as reference material) agree on the value.

GB/T 8324-2008/ISO 171. 1980