**Doc: PCD 27 (23183) F**

***भारतीय मानक***

***Indian Standard***

**IS 13360 (Part 3/Sec 4) : 2024**

**ISO 171 : 2022**

**प्लास्टिक — परीक्षण पद्धतियाँ**

**भाग 3 भौतिक और आयामी गुणधर्म**

**अनुभाग 4 संचकन सामग्रियों का परिणाम काटक ज्ञात करना**

(*पहला* पुनरीक्षण)

**Plastics — Methods of Testing**

**Part 3 Physical and Dimensional Properties**

**Section 4 Determination of Bulk Factor of Moulding Materials** *(First Revision)*

ICS 83.080.01

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भारतीय मानक ब्यूरो

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**November 2024 Price Group X**

Methods of Sampling and Test for Plastics Sectional Committee, PCD 27

NATIONAL FOREWORD

This Indian Standard (Part 3/Sec 4) (First Revision) which is identical with ISO 171 : 2022   
‘Plastics — Determination of bulk factor of moulding materials’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendations of the Methods of Sampling and Test for Plastics Sectional Committee and approval of the Petroleum, Coals and Related Products Division Council.

This Indian Standard was originally published in 1995 which was identical with ISO 171 : 1980. This revision has been brought out to align the standard with the latest version of ISO 171 : 2022.

The major changes in this revision are as follows:

— the normative references have been updated;

— the definition of the bulk factor has been revised;

— the principle of the method has been added; and

— the document has been editorially revised.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 60, Plastics — Determination of apparent density of material that can be poured from a specified funnel | IS 13360 (Part 3/Sec 2) : 1997 / ISO 60 : 1977 Plastics — Methods of testing : Part 3 Physical and dimensional properties, Section 2 Determination of apparent density of material that can be poured from a specified funnel | Identical |
| ISO 61, Plastics — Determination of apparent density of moulding material that cannot be poured from a specified funnel | IS 13360 (Part 3/Sec 3) : 1997 / ISO 61 : 1976 Plastics — Methods of testing : Part 3 Physical and dimensional properties, Section 3 Determination of apparent density of moulding material that cannot be poured from a specified funnel | Identical |
| ISO 1183 (all parts), Plastics — Methods for determining the density of non-cellular plastics | IS 13360 (Part 3/Sec 10) : 2021 / ISO 1183-1: 2019 Plastics — Methods of testing : Part 3 Physical and dimensional Properties, Section 10 Determination of density of non-cellular plastics –– Immersion method, liquid pyknometer method and titration method (*first revision*) | Identical |
| IS 13360 (Part 3/Sec 11) : 2021 / ISO 1183-2 : 2019 Plastics — Methods of testing : Part 3 Physical and dimensional Properties, Section 11 Determination of density of non-cellular plastics –– Density gradient column method (*first revision*) | Identical |
| IS 13360 (Part 3/Sec 12) : 2016 / ISO 1183-3 : 1999 Plastics — Methods of testing : Part 3 Physical and dimensional Properties, Section 12 Determination of density of non-cellular plastics — Gas pyknometer method | Identical |

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

|  |  |
| --- | --- |
| *International Standard* | *Title* |
| ISO 291 | Plastics — Standard atmospheres for conditioning and testing |

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’.