**Doc: PCD 27 (23124) F**

***भारतीय मानक***

***Indian Standard***

**IS 13360 (Part 9/Sec 9) : 2024**

**ISO 17223 : 2014**

**प्लास्टिक — परीक्षण पद्धतियाँ**

**भाग 9 प्रकाशिक गुणधर्म**

**अनुभाग 9 पीत सूचकांक और पीतपन सूचकांक में परिवर्तन का निर्धारण**

(पहला पुनरीक्षण)

**Plastics — Methods of Testing**

**Part 9 Optical Properties**

**Section 9 Determination of Yellow Index and Change in Yellowness Index**

*(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 9/Sec 9) (First Revision) which is identical with ISO 17223 : 2014 ‘Plastics — Determination of yellowness index and change in yellowness index’ 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 standard was originally published as IS 13360 (Part 9/Sec 9) : 2001 ‘Plastics — Methods of testing: Part 9 Optical properties Section 9 Determination of yellow index of plastics’. This standard has now been revised to harmonize with ISO 17223 : 2014 by adoption under dual numbering system.

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 the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated.

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 5725-2, Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method | IS 15393 (Part 2) : 2021 / ISO 5725-2 : 2019 Accuracy (Trueness and precision) of measurement methods and results: Part 2 Basic method for the determination of repeatability and reproducibility of a standard measurement method (*first revision*) | Identical |

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

|  |  |
| --- | --- |
| *International Standard* | *Title* |
| ISO 291 | Plastics — Standard atmospheres for conditioning and testing |
| ISO 1043-1 | Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics |
| ASTM E313 | Standard practice for calculating yellowness and whiteness indices from instrumentally measured color coordinates |
| CIE 15 | Colorimetry |

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*)’.