**Doc: PCD 27 (25106) F**

***भारतीय मानक***

***Indian Standard***

**IS 13360 (Part 5/Sec XX) : 2024**

**ISO 18872 : 2007**

**प्लास्टिक - परीक्षण की पद्धतियां:**

**भाग 5 यांत्रिक गुण,**

**अनुभाग XX उच्च विकृति दर पर तन्य गुणों का निर्धारण**

**PLASTICS — METHODS OF TESTING**

**PART 5 MECHANICAL PROPERTIES**

**SECTION XX DETERMINATION OF TENSILE PROPERTIES**

**AT HIGH STRAIN RATES**

ICS 83.080.10

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**August 2024 Price Group X**

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

**NATIONAL FOREWARD**

This Indian Standard which is identical with ISO 18872 : 2007 ‘Plastics — Determination of tensile properties at high strain rates’ 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.

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 Standard for which Indian Standard also exist. The corresponding Indian Standard, which is to be substituted in their respective places, is listed below along with their degree of equivalence for the editions indicated:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| [ISO 527-1:1993](https://www.iso.org/obp/ui/en/#iso:std:iso:527:-1:ed-1:en), Plastics — Determination of tensile properties — Part 1: General principles | IS 13360 (Part 5/Sec 1) : 2021/ ISO 527-1: 2019 — Plastics — Methods of testing: Part 5 Mechanical properties, Section 1 Determination of tensile properties — General requirements (*second revision*) | Identical |
| [ISO 527-2](https://www.iso.org/obp/ui/en/#iso:std:iso:527:-2:en), Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics | IS 13360 (Part 5/Sec 2) : 2017 / ISO 527-2 : 2012 — Plastics — Methods of testing: Part 5 mechanical properties, section 2 determination of tensile properties — Test conditions for moulding and extrusion plastics (*first revision*) | Identical |
| [ISO 2818](https://www.iso.org/obp/ui/en/#iso:std:iso:2818:en), Plastics — Preparation of test specimens by machining | IS 13360 (Part 2/Sec 4) : 2021/ ISO 2818: 2018 — Plastics — Methods of testing: Part 2 Sampling and preparation of test specimens, Section 4 Preparation of test specimens by machining (*second revision*) | Identical |

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*)’.