**Doc: PCD 27 (25101) F**

***भारतीय मानक***

***Indian Standard***

**IS 13360 (Part 5/Sec XX/   
Subsec 1) : 2024**

**ISO 6603-1 : 2000**

***प्लास्टिक — परीक्षण* पद्धतियाँ**

**भाग 5 यांत्रिक गुणधर्म**

**अनुभाग XX कठोर प्लास्टिक के पंचर प्रभाव व्यवहार का निर्धारण**

**उपभाग 1 गैर-यंत्रित प्रभाव परीक्षण**

**Plastics — Methods of Testing**

**Part 5 Mechanical Properties**

**Section XX Determination of Puncture Impact Behaviour of Rigid Plastics**

**Subsection 1 Non-instrumented Impact Testing**

ICS 83.080.01

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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 5/Sec XX/Subsec 1) which is identical with ISO 6603-1 : 2000 ‘Plastics — Determination of puncture impact behaviour of rigid plastics Part 1: Non-instrumented impact testing’ 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 standards, 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 293 : 1986, Plastics — Compression moulding test specimens of thermoplastic materials. | IS 13360 (Part 2/Sec 1) : 2024 / ISO 293 : 2023 Plastics — Methods of testing: Part 2 Sampling and preparation of test specimens, Section 1 Plastics — Compression moulding of test specimens of thermoplastic materials (*second revision)* (*under printing*) | Identical |
| ISO 294-3 : 1996, Plastics — Injection moulding of test specimens of thermoplastic materials — Part 3: Small plates. | IS 13360 (Part 2/Sec 7) : 2021 / ISO 294-3 : 2020 Plastics — Methods of testing: Part 2 Sampling and preparation of test specimens, Section 7 Injection moulding of test specimens of thermoplastic materials — Small plates (*third revision*) | Identical |
| ISO 295 : 1991, Plastics — Compression moulding of test specimens of thermosetting materials. | IS 13360 (Part 2/Sec 2) : 2013 / ISO 295 : 2004 Plastics — Methods of testing: Part 2 Sampling and preparation of test specimens, Section 2 Compression moulding of test specimens of thermosetting materials (*first revision*) | Identical |
| ISO 2818 : 1994, 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 |
| ISO 7765-1 : 1988, Plastics film and sheeting — Determination of impact resistance by the free-falling dart method — Part 1: Staircase methods | IS 13360 (Part 5/Sec 6) : 1999 / ISO 7765-1 : 1988 Plastics —Methods of testing: Part 5 Mechanical properties, Section 6 Determination of impact resistance by the free-falling dart method — Staircase methods | Identical |
| ISO 7765-2 : 1994, Plastics film and sheeting — Determination of impact resistance by the free-falling dart method — Part 2: Instrumented puncture test. | IS 13360 (Part 5/Sec 24) : 1999 / ISO 7765-2 : 1994 Plastics — Methods of testing: Part 5 Mechanical properties, Section 24 Determination of impact resistance by the free-falling dart method — Instrumented puncture test | 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:

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| --- | --- |
| *International Standard* | *Title* |
| ISO 291 : 1997 | Plastics — Standard atmospheres for conditioning and testing |
| ISO 1268 : 1974 | Plastics — Preparation of glass fibre reinforced, resin bonded, low-pressure laminated plates or panels for test purposes. |

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*)’.