Doc. No: PCD 27 (23186) WC

IS 13360 (Part 5/Sec 5/Subsec 2): 2020

ISO 179-2 : 2020 August 2023

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

PLASTICS — METHODS OF TESTING PART 5 MECHANICAL PROPERTIES SECTION 5 DETERMINATION OF CHARPY IMPACT PROPERTIES SUBSEC 2 INSTRUMENTED IMPACT TEST

[Second Revision of IS 13360 (Part 5/Sec 5)]

(ICS 83.080.01)

Methods of Sampling and Test for Plastics Sectional Committee, PCD 27 Last date for receipt of comment is **07 October 2023**

NATIONAL FOREWORD

(Formal clauses to be added later)

This standard was originally published in 1996 and subsequently revised in 2017. This revision has been undertaken to align the standard with the latest version of ISO standard.

As the ISO is available in two parts, the Committee decided to bifurcate the standard (IS 13360 (Part 5/Sec 5)) into two subsections as:

Subsec 1: Non-instrumented impact test Subsec 2: Instrumented impact test

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, references appear to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are 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 179-1:2010, Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test	PCD 27 () Plastics — Methods of testing: Part 5 Mechanical properties, Section 5 Determination of charpy impact properties, Subsec 2 instrumented impact test (Revision of IS 13360 (Part 5/Sec 5/Subsec 1))	Identical
ISO 291, Plastics — Standard atmospheres for conditioning and testing	IS 196 : 1966 Atmospheric conditions for testing (revised)	Not equivalent

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

International	Title
Standard	
ISO 2602	Statistical interpretation of test results — Estimation of the mean — Confidence interval
ISO 13802 :	Plastics — Verification of pendulum impact-testing machines — Charpy, Izod and tensile
2015	impact-testing
ISO 16012	Plastics — Determination of linear dimensions of test specimens

For tropical countries like India, the standard temperature and the relative humidity shall be taken as $27 \pm 2^{\circ}$ C and 65 ± 5 percent respectively.

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)'.

NOTE — The technical content of this document has not been enclosed as this is identical with the corresponding amendment to ISO Standard. For details, pleases refer to ISO 179-2 : 2020 or kindly contact:

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