

## *Indian Standard*

# PLASTICS — METHODS OF TESTING

### PART 2 SAMPLING AND PREPARATION OF TEST SPECIMENS

#### Section 2 Compression Moulding of Test Specimens of Thermosetting Materials

### *(First Revision)*

## 1 Scope

This International Standard

establishes the general principles and lays down the procedure to prepare test specimens of heat- and pressure-moulded thermosetting material from different moulding compounds;

specifies the details for test specimen preparation to be included with the test reports on properties;

gives the general principles for the design of the mould intended for the preparation of the test specimens.

The conditions required for preparing, in a reproducible manner, test specimens which will give comparable results are discussed relative to the substance under consideration.

The method applies to phenolic resin, aminoplastic, melamine/phenol, epoxy and unsaturated-polyester based thermosetting powder moulding compounds (PMCs). Due to the nature of certain moulding compounds, their flow properties or other variable factors, it may be necessary to prepare the test specimens according to special methods. The latter are normally in an agreement between the interested parties and noted in the moulding report.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 472:1999, *Plastics — Vocabulary*

ISO 1183 :1987, *Plastics — Methods for determining the density and relative density of non-cellular plastics*

ISO 3167 :2002, *Plastics — Multipurpose test specimens*

ISO 4287, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

ISO 14526-1, *Plastics — Phenolic powder moulding compounds (PF-PMCs) — Part 1: Designation system and basis for specifications*

ISO 14526-2, *Plastics — Phenolic powder moulding compounds (PF-PMCs) — Part 2: Preparation of test specimens and determination of properties*

ISO 14526-3, *Plastics — Phenolic powder moulding compounds (PF-PMCs) — Part 3: Requirements for selected moulding compounds*

ISO 14527-1, *Plastics — Urea-formaldehyde and urea/melamine-formaldehyde powder moulding compounds (UF- and UF/MF-PMCs) — Part 1: Designation and basis for specifications*

# (PREVIEW)

**IS 13360 (Part 2/Sec 2) : 2013**

**ISO 295 : 2004**

ISO 14527-2, *Plastics — Urea-formaldehyde and urea/melamine-formaldehyde powder moulding compounds (UF- and UF/MF-PMCs) — Part 2: Preparation of test specimens and determination of properties*

ISO 14527-3, *Plastics — Urea-formaldehyde and urea/melamine-formaldehyde powder moulding compounds (UF- and UF/MF-PMCs) — Part 3: Requirements for selected moulding compounds*

ISO 14528-1, *Plastics — Melamine-formaldehyde powder moulding compounds (MF-PMCs) — Part 1: Designation system and basis for specifications*

ISO 14528-2, *Plastics — Melamine-formaldehyde powder moulding compounds (MF-PMCs) — Part 2: Preparation of test specimens and determination of properties*

ISO 14528-3, *Plastics — Melamine-formaldehyde powder moulding compounds (MF-PMCs) — Part 3: Requirements for selected moulding compounds*

ISO 14529-1, *Plastics — Melamine/phenolic powder moulding compounds (MP-PMCs) — Part 1: Designation system and basis for specifications*

ISO 14529-2, *Plastics — Melamine/phenolic powder moulding compounds (MP-PMCs) — Part 2: Preparation of test specimens and determination of properties*

ISO 14529-3, *Plastics — Melamine/phenolic powder moulding compounds (MP-PMCs) — Part 3: Requirements for selected moulding compounds*

ISO 14530-1, *Plastics — Unsaturated-polyester powder moulding compounds (UP-PMCs) — Part 1: Designation system and basis for specifications*

ISO 14530-2, *Plastics — Unsaturated-polyester powder moulding compounds (UP-PMCs) — Part 2: Preparation of test specimens and determination of properties*

ISO 14530-3, *Plastics — Unsaturated-polyester powder moulding compounds (UP-PMCs) — Part 3: Requirements for selected moulding compounds*

ISO 15252-1, *Plastics — Epoxy powder moulding compounds (EP-PMCs) — Part 1: Designation system and basis for specifications*

ISO 15252-2, *Plastics — Epoxy powder moulding compounds (EP-PMCs) — Part 2: Preparation of test specimens and determination of properties*

ISO 15252-3, *Plastics — Epoxy powder moulding compounds (EP-PMCs) — Part 3: Requirements for selected moulding compounds*