

INTERNATIONAL STANDARD

ISO
2112

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Plastics — Aminoplastic moulding materials — Specification

Plastiques — Matières à mouler aminoplastes — Spécification



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2112 was prepared by Technical Committee ISO/TC 61, *Plastics*.

This second edition cancels and replaces the first edition (ISO 2112:1977), of which it constitutes a technical revision.

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Plastics — Aminoplastic moulding materials — Specification

1 Scope

1.1 This International Standard establishes a specification applicable to four types of aminoplastic moulding materials, classified according to use, as follows:

Type UF A — General purpose

Example: Urea-formaldehyde resin with cellulose filler.

Type MF B — Hot-water resistant

Example: Melamine-formaldehyde resin with cellulose filler.

Type MF C — Heat resistant and electrical

Example: Melamine-formaldehyde resin with inorganic filler.

Type MF D — Impact resistant

Example: Melamine-formaldehyde resin with chopped cotton-cloth filler.

1.2 These types have been further sub-divided into grades based on property levels and requirements, as follows:

Grade UF A10	} Substantially filled material	alpha-cellulose-
Grade UF A11		
Grade UF A20	Substantially	woodflour-filled material
Grade MF B10	Substantially	alpha-cellulose-filled material
Grade MF B11	Substantially	alpha-cellulose-filled material with limited formaldehyde migration
Grade MF B12	Substantially	alpha-cellulose-filled material with limited formaldehyde migration for injection-moulding applications

Grade MF B20 Substantially woodflour-filled material

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 62:1980, *Plastics — Determination of water absorption*.

ISO 75:1987, *Plastics and ebonite — Determination of temperature of deflection under load*.

ISO 171:1980, *Plastics — Determination of bulk factor of moulding materials*.

ISO 178:1975, *Plastics — Determination of flexural properties of rigid plastics*.

ISO 179:1982, *Plastics — Determination of Charpy impact strength of rigid materials*.

ISO 180:1982, *Plastics — Determination of Izod impact strength of rigid materials*.

ISO 181:1981, *Plastics — Determination of flammability characteristics of rigid plastics in the form of small specimens in contact with an incandescent rod*.

ISO 291:1977, *Plastics — Standard atmospheres for conditioning and testing*.

ISO 295:1974, *Plastics — Compression moulding test specimens of thermosetting materials*.