INTERNATIONAL STANDARD

ISO 1060-2

> Third edition 1998-03-15

Plastics — Homopolymer and copolymer resins of vinyl chloride —

Part 2:

Preparation of test samples and determination of properties

Plastiques — Résines d'homopolymères et de copolymères de chlorure de vinyle —

Partie 2: Préparation des échantillons pour essai et détermination des propriétés



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 nongovernmental, 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 1060-2 was prepared by Technical Committee ISO/TC 61, Plastics, Subcommittee SC 9, Thermoplastic paterials.

edition cancels and replaces edition This third (ISO 1060-2:1985) and includes the following main changes

- the list of test methods in table 1 has been revised;
- the preparation of standard pastes has been included. b)

ISO 1060 consists of the following parts, under the general title Plastic Homopolymer and copolymer resins of vinyl chloride:

- Part 1: Designation system and basis for specifications
- Part 2: Preparation of test samples and determination of properties

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Plastics — Homopolymer and copolymer resins of vinyl chloride —

Part 2:

Preparation of test samples and determination of properties

1 Scope

This part of ISO 1060 specified the nethods of preparation of test samples and the test methods to be used in determining the properties of PVC resigns. Requirements for handling test material and for conditioning the material before testing are given here. In addition, properties and test methods which are suitable and necessary to characterize PVC resins are listed.

In order to obtain reproducible and comparable test results, it is necessary to use the methods of sample preparation and conditioning and the test procedures specified herein. Values determined will not necessarily be identical to those obtained using different test samples, or test samples prepared using different procedures.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1060. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 1060 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of EC and ISO maintain registers of currently valid International Standards.

ISO 60:1977, Plastics — Determination of apparent density of material that can be poured from a specified funnel.

ISO 1068:1975, Plastics — Homopolymer and copolymer resins of viny poride — Determination of compacted apparent bulk density.

ISO 1158:—1), Plastics — Vinyl chloride homopolymers and copolymers — Determination of chlorine content.

ISO 1159:1978, Plastics — Vinyl chloride-vinyl acetate copolymers — Determination of vinyl acetate.

ISO 1264:1980, Plastics — Homopolymer and copolymer resins of vinyl chloride — Determination of pH of aqueous extract.

ISO 1265:1979, Plastics — Polyvinyl chloride resins — Determination of number of impurities and foreign particles.

ISO 1269:1980, *Plastics* — Homopolymer and copolymer resins of vinyl chloride — Determination of volatile matter (including water).

ISO 1385-1:1977, Phthalate esters for industrial use — Methods of test — Part 1: General.

ISO 1624:1978, Plastics — Vinyl chloride homopolymer and copolymer resins — Sieve analysis in water.

¹⁾ To be published. (Revision of ISO 1158:1984)

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ISO 1628-2:—2), Plastics — Determination of the viscosity of polymers in dilute solution using capillary viscometers — Part 2: Poly(vinyl chloride) resins.

ISO 255:1989, Plastics — Resins in the liquid state or as emulsions or dispersions — Determination of apparent viscosity by the Brookfield Test method.

ISO 2591-1:1988, Test sieving — Part 1: Methods using test sieves of woven wire cloth and perforated metal plate.

ISO 3219:1993, Plastics — Polymers/resins in the liquid state or as emulsions or dispersions — Determination of viscosity using a rotational viscometer with defined shear rate.

ISO 3451-5:1989, Plastics— Determination of ash — Part 5: Poly(vinyl chloride).

ISO 4574:1978, Plastics PVC resins for general use — Determination of hot plasticizer absorption.

ISO 4575:1985, Plastics — Polyvinyl chloride pastes — Determination of apparent viscosity using the Severs rheometer.

ISO 4608:—3), Plastics — Homopolymer and copolymer resins of vinyl chloride for general use — Determination of plasticizer absorption at room temperature.

ISO 4610:1977, Plastics — Vinyl chlorid comopolymer and copolymer resins — Sieve analysis using air-jet sieve apparatus.

ISO 4612:—4), Plastics — Preparation of PVC pastes for test purposes — Planetary-mixer method.

ISO 6186:—5), Plastics — Determination of pourability.

ISO 6401:1985, Plastics — Homopolymer and copolymer resins of vinyl chloride — Determination of residual vinyl chloride monomer — Gas chromatographic method.

ISO 11468:1997, Plastics — Preparation of PVC pastes for test purposes — Dissolver method.

3 Preparation of test samples

3.1 Sampling

The sample of resin taken shall be generally representative of the resin whose properties are to be determined and be sufficiently large to provide the number of test samples required by the test methods concerned.

3.2 Preparation of standard pastes

In order to carry out certain tests on paste resins, it is necessary to prepare standard pastes from the test sample concerned.

For designation purposes, one of two standard paste formulations, A and B, shall be used, petformulation A should be used in preference. Formulation B should be used when the resin to be designated does not form a paste with formulation A or if the temperature exceeds 35 °C during the preparation of the paste. Formulation B should also be used when it is not possible to measure the viscosities of the paste at both shear rates with formulation A.

²⁾ To be published. (Revision of ISO 1628-2:1988)

³⁾ To be published. (Revision of ISO 4608:1984)

⁴⁾ To be published. (Revision of ISO 4612:1979)

⁵⁾ To be published. (Revision of ISO 6186:1980)