
Plastics — Preparation of PVC pastes for test purposes — Dissolver method

*Plastiques — Préparation des pâtes PVC pour essai — Méthode utilisant un
dispositif pour dissolution*



Foreword

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International Standard ISO 11468 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

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Printed in Switzerland

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1 Scope

This International Standard specifies a method, using a dissolver, for the preparation of PVC pastes made from polymerized vinyl chloride (VC). Such PVC pastes are used to characterize the various VC polymers with reference to their rheological properties, as well as being a means of establishing consistency between various deliveries.

The method can also be used to prepare pastes of other compositions (for example with stabilizers) but such pastes cannot be used for resin designation purposes.

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 291:1997, *Plastics — Standard atmospheres for conditioning and testing*.

ISO 1060-2:—¹⁾, *Plastics — Homopolymer and copolymer resins of vinyl chloride — Part 2: Preparation of test specimens and determination of properties*.

3 Principle

A PVC paste is prepared by mixing a PVC resin and a plasticizer in a dissolver.

For the purposes of this International Standard, a plastisol is defined as a liquid PVC composition consisting of a suspension of PVC resin in a liquid plasticizer.

4 Apparatus and materials²⁾

4.1 Dissolver, consisting of a cylindrical mixing vessel, preferably double-walled, and a motor-driven spindle to which is attached a horizontal coarsely toothed mixing disc (dissolver disc). The dissolver disc transfers energy to the PVC paste, causing the paste ingredients to be driven centrally downwards along the spindle axis and upwards along the walls of the mixing vessel (see figure 1).

1) To be published. (Revision of ISO 1060-2:1985)

2) Suitable equipment is available from VMA-Getzmann GmbH, Verfahrenstechnik, Euelerhammerstr. 13, 51580 Reichshof, Germany.