
Polimerni materiali - Praškaste fenolne smole - Ugotavljanje pretočne razdalje na segreti stekleni plošči (ISO 8619:2003)

Plastics - Phenolic resin powder - Determination of flow distance on a heated glass plate (ISO 8619:2003)

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English version

Plastics - Phenolic resin powder - Determination of flow distance
on a heated glass plate (ISO 8619:2003)

Plastiques - Résines phénoliques en poudre -
Détermination de la distance d'écoulement sur une plaque
de verre chauffée (ISO 8619:2003)

Kunststoffe - Pulverförmige Phenolharze - Bestimmung der
Fließstrecke auf einer vorgeheizten Glasplatte (ISO
8619:2003)

This European Standard was approved by CEN on 21 December 2004.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of ISO 8619:2003 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 8619:2004 by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

This document supersedes EN ISO 8619:1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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The text of ISO 8619:2003 has been approved by CEN as EN ISO 8619:2004 without any modifications.

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INTERNATIONAL STANDARD

**ISO
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Third edition
2003-04-01

Plastics — Phenolic resin powder — Determination of flow distance on a heated glass plate

*Plastiques — Résines phénoliques en poudre — Détermination de la
distance d'écoulement sur une plaque de verre chauffée*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8619 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

This third edition cancels and replaces the second edition (ISO 8619:1995), which had been revised so that the test device may also be tilted by opening the oven.

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Plastics — Phenolic resin powder — Determination of flow distance on a heated glass plate

1 Scope

1.1 This International Standard specifies a method for the determination of the flow distance of powdered heat-setting phenolic resins for production and control. With reference to tablet formation, test temperature and angle of inclination of the glass plate, measurement of the flow distance involves arbitrarily defined conditions.

1.2 The flow distance is dependent on the reactivity and melt viscosity of the resins. Rapid solidification and high melt viscosity shorten the flow distance.

2 Principle

Tablets are first produced under defined conditions and are placed on a glass plate which has been heated to $(125 \pm 1)^\circ\text{C}$ in a naturally ventilated oven. The plate, with the tablets on it, is kept in the oven for 3 min in the horizontal position and then for 20 min in a tilted position. The flow distance is then measured.

3 Apparatus

3.1 Oven with natural ventilation, capable of maintaining a temperature of $(125 \pm 1)^\circ\text{C}$. Use a spirit level to check that it is perfectly horizontal. The temperature shall be measured in the immediate vicinity of the test tablets.

3.2 Cylindrical tablet press, for producing tablets $(12,5 \pm 0,3)$ mm in diameter and $(4,8 \pm 0,2)$ mm thick.

3.3 Balance, accurate to 1 mg.

3.4 Tilting device, made of metal, which can be manipulated from outside or after opening the oven, to position the glass plate (3.5) either horizontally or at an angle of $60^\circ \pm 1^\circ$ (see Figure 1).

3.5 Glass plate, of a suitable size to fit in the oven, for example length 100 mm to 150 mm, width 60 mm to 120 mm, thickness 2,7 mm to 3 mm. The glass plate shall be absolutely clean, smooth and without scratches. To make sure that the tablets have not become displaced during the experiment, a starting line may be drawn on the plate.

NOTE The starting line is scored on the plate using a glass cutter. It has no influence on the result, and is simply used for precise positioning of the tablets and for measuring the flow distance.

4 Procedure

4.1 In cases of dispute, dry the sample until constant mass is obtained, for example by storing the powdered resin in a desiccator for at least 48 h over phosphorus pentoxide.

NOTE The water content of the sample has a marked influence on the flow distance.