

**Plastid. Fenoolvaigud. Keemilise aktiivsuse määramine
B-kujulisel katseplaadil**

Plastics - Phenolic resins - Determination of reactivity on a
B-transformation test plate

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 8987:2000 sisaldab Euroopa standardi EN ISO 8987:1998 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 10.05.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 8987:2000 consists of the English text of the European standard EN ISO 8987:1998.

This standard is ratified with the order of Estonian Centre for Standardisation dated 10.05.2000 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

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English version

Plastics
Phenolic resins

Determination of reactivity on a B-transformation test plate
(ISO 8987 : 1995)

Plastiques – Résines phénoliques –
Méthode d'évaluation de la réactivité
sur plaque d'essai de transformation
au stade B (ISO 8987 : 1995)

Kunststoffe – Phenolharze – Bestim-
mung der Reaktivität auf einer B-Zeit-
Prüfplatte (ISO 8987 : 1995)

This European Standard was approved by CEN on 1998-06-12.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 8987 : 1995 Plastics – Phenolic resins – Determination of reactivity on a B-transformation test plate, which was prepared by ISO/TC 61 'Plastics' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 249 'Plastics', the Secretariat of which is held by IBN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by February 1999 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 8987 : 1995 was approved by CEN as a European Standard without any modification.

1 Scope

This International Standard specifies methods for the determination of the B-transformation time of phenolic resins at a specified temperature and under specified conditions on a heated test plate.

Two methods are described, each with a different test plate:

Method A — plate with depressions in the form of segments of spheres;

Method B — flat plate without depressions.

2 Principle

The condensation of the phenolic resin is carried out to the B-stage on one of two types of test plate, depending on the method.

3 Method A: Determination on a plate with depressions

3.1 Apparatus

3.1.1 Thermostatic control device, permissible temperature variation $\pm 0,5$ °C.

3.1.2 Hotplate, on which the test plate can be arranged in a suitable manner to obtain optimum heat transfer.

NOTE 1 No hotplate is necessary if a test plate with an integral heater is used.

3.1.3 Glass rod, 5 mm in diameter, tapering to about 2 mm in diameter at one end.

3.1.4 Balance, scale interval 0,01 g.

3.1.5 Syringe.

3.1.6 Stopwatch, with at least 1 s sub-divisions.

3.1.7 B-transformation test plate, with depressions as shown in figure 1, with or without an integral heater.

3.2 Number of tests

Conduct one or more tests, depending on the requirements of the appropriate International Standard or as agreed between the parties concerned.

3.3 Procedure

Bring the B-transformation test plate (3.1.7) to the required temperature and place a box, open on one side, round the test plate to provide protection against draughts. Pour $0,5 \text{ g} \pm 0,05 \text{ g}$ of phenolic resin into one of the depressions in the test plate and start the stopwatch (3.1.6) when the resin touches the plate. Liquid resins or phenolic resin solutions may be placed in the depression with a syringe (3.1.5). Stir the resin with the glass rod (3.1.3), using short circular movements from the edge of the depression towards the middle.

For longer B-transformation times, stir initially for one minute and then at one-minute intervals for 10 s in each case. If the B-transformation point is reached within a one-minute interval, repeat the test, knowing the approximate test time.