

Liimid. Püsivus külmutamisel-sulatamisel

Adhesives - Freeze-thaw stability

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1239:2000 sisaldab Euroopa standardi EN 1239:1998 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1239:2000 consists of the English text of the European standard EN 1239:1998.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: See standard määrab kindlaks meetodi liimide, nende põhikomponentide ja nendega seotud toodete stabiilsuse hindamiseks külmutamisel-sulatamisel.</p>	<p>Scope:</p>
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ICS 83.180

Võtmesõnad: katse tulemused, katsed, kindlaksmääramine, komponendid, külmutus-sulatuspüsivus, liigitus, liimid, menetlus, viskoossuse mõõtmised

ICS 83.180

Descriptors: Adhesives, freeze-thaw resistance, testing.

English version

Adhesives

Freeze-thaw stability

Adhésifs – Stabilité au gel-dégel

Klebstoffe – Gefrier-Auftau-Stabilität

This European Standard was approved by CEN on 1998-01-02.

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 193 "Adhesives", the secretariat of which is held by AENOR.

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 August 1998, and conflicting national standards shall be withdrawn at the latest by August 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies a method for the evaluation of the freeze-thaw stability of adhesives, their basic constituents and related products.

This test has no significance if the sample does not freeze under the test conditions.

2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 923	Adhesives - Terms and definitions
EN 1066	Adhesives - Sampling
EN 1067	Adhesives - Examination and preparation of samples for testing
prEN 12092	Adhesives - Determination of viscosity

3 Definitions

For the purposes of this standard the definitions in accordance with EN 923 apply.

4 Principle

Measure the viscosity of a sample of the adhesive being tested by placing it in a test chamber for 16 h at a selected temperature of -5°C, -10°C, -15°C or -20°C, then holding it for 8 h at 23°C and finally checking the aspect of the adhesive.

If no coagulum is formed, the cycle is repeated i.e. the sample is stored at the selected temperature for another 16 h and then held at 23°C for 8 h up to a maximum number of three cycles. The final viscosity of the adhesive is measured.

Freeze-thaw cycle stability is indicated by the selected test temperature and the number of cycles endured without visible coagulation at an increase of viscosity not exceeding the manufacturer's specification limits.

NOTE 1: The freezing temperature selected depends on the chemical nature of the adhesive to be tested and the temperature conditions to which the adhesive is exposed in service. If necessary, preliminary tests should be carried out in order to determine the appropriate test temperature.

NOTE 2: The results obtained by this method are not necessarily applicable to larger-volume vessels.