



**SLOVENSKI STANDARD**  
**SIST EN 13722:2004**

**01-december-2004**

---

**Pohištvo - Ugotavljanje sijaja površine**

Furniture - Assessment of the surface gloss

Möbel - Bewertung des Oberflächenglanzes

Meubles - Évaluation de la brillance des surfaces

**Ta slovenski standard je istoveten z: EN 13722:2004**

[SIST EN 13722:2004](https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004)

<https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004>

**ICS:**

97.140

Pohištvo

Furniture

**SIST EN 13722:2004**

**en,fr,de**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 13722:2004](#)

<https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 13722**

July 2004

ICS 97.140

English version

**Furniture - Assessment of the surface gloss**

Meubles - Evaluation de la brillance des surfaces

Möbel - Bewertung des Oberflächenglanzes

This European Standard was approved by CEN on 13 May 2004.

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.

This European Standard exists 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.

CEN members are the national standards bodies of 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.

(standards.iteh.ai)

SIST EN 13722:2004

<https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004>



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

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

## Contents

	Page
Foreword.....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	4
4 Principle.....	5
5 Apparatus .....	5
6 Preparation and conditioning of test units .....	5
7 Calibration of glossmeter .....	5
8 Test Procedure.....	5
8.1 General.....	5
8.2 Textured and/or open grain surfaces .....	6
8.3 Other surfaces.....	6
8.4 Expression of results .....	6
9 Test report .....	8

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

[SIST EN 13722:2004](https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-79c349a4a9d/sist-en-13722-2004)

<https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-79c349a4a9d/sist-en-13722-2004>

## Foreword

This document (EN 13722:2004) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

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 January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

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.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 13722:2004](https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004)

<https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004>

**EN 13722:2004 (E)****1 Scope**

This document specifies a method for the assessment of the surface gloss of furniture surfaces using three reflectometer geometries, 20°, 60° or 85° and relates to rigid surfaces of all finished products regardless of materials, except for finishes on leather and fabrics, which are excluded from this document.

The test is intended to be carried out on finished furniture, but can be carried out on test panels of the same material, finished in an identical manner to the finished product, and of a size sufficient to meet the requirements of the test.

It is not applicable for finishes on some metallic paints and pearly coatings.

**2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 2813, *Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85° (ISO 2813:1994, including Technical Corrigendum 1:1997)*

**3 Terms and definitions**

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

For the purposes of this document, the following terms and definitions apply.

**3.1 specular gloss**

ratio of the luminous flux reflected from an object in the specular direction for a specified source and receptor angle to the luminous flux reflected from glass with a refractive index of 1,567 in the specular direction

**3.2 test unit**

finished item of furniture

**3.3 Test surface**

part of the test unit, where the test area is included

**3.4 test panel**

panel produced in the same way as the test surface; it shall be used when it is not possible to carry out the test directly on the test surface

**3.5 test area**

area under the equipment, where the measurement is carried out

**3.6 pearly coatings**

coating with pearly additives. The pearly additives act like microscopy mirrors reflecting and transferring the light in several directions

### 3.7

#### **textured surface**

profiled or uneven surface

### 3.8

#### **open grain surface**

surface where the grains/pores are not completely filled by the coating material

## 4 Principle

The specular gloss of the test unit/test panel shall be measured in various directions, using a glossmeter with the specified geometry.

## 5 Apparatus

Glossmeter as specified in EN ISO 2813.

## 6 Preparation and conditioning of test units

The test unit/test panel shall be stored for not less than four weeks at a temperature not less than 15 °C and not more than 30 °C with free access of air.

The test unit /test panel shall be kept in a room without direct light exposure.

Conditioning shall begin one week before testing and shall be carried out in air at a temperature of  $(23 \pm 2)$  °C and relative humidity of  $(50 \pm 5)$  %. The conditioning can be a part of the four weeks above.

The test surface shall be cleaned with a soft, clean, lint-free cloth before the test.

The test surface shall be substantially flat and of sufficient size to take the measurements.

## 7 Calibration of glossmeter

Before carrying out any tests, calibrate the glossmeter according to EN ISO 2813 or the instructions of the glossmeter manufacturer.

Calibration shall be carried out at the start of each period of operation and at intervals short enough to maintain the glossmeter accuracy according to the manufacturer's instructions.

To define the specular gloss scale, polished black glass with a refractive index of 1,567 is equal to a value of 100 for geometries of 20°, 60° and 85°.

## 8 Test Procedure

### 8.1 General

Measurements shall be carried out by using glossmeter(s) with the specified geometries and according to the following procedure:

Measure the specular gloss using the 60° geometry method.

**EN 13722:2004 (E)**

If the result (see 8.4) is  $\geq 70$  units (high specular gloss), additional measurements shall be carried out using the 20° geometry method.

NOTE 1 The 20° geometry method, which uses a smaller receptor aperture, is intended to obtain improved differentiation of high specular gloss.

If the result (see 8.4) is  $\leq 10$  units (low specular gloss), additional measurements shall be carried out using the 85° geometry method.

NOTE 2 The 85° geometry method, which uses a larger receptor aperture, is intended to obtain improved differentiation of low specular gloss.

The same geometry shall be used for all the measurements on a test unit determination of the specular gloss.

**8.2 Textured and/or open grain surfaces**

Using the glossmeter, take four measurements in the directions shown in Figure 1.

**8.3 Other surfaces**

Using the glossmeter, take four measurements in the directions shown in Figure 2.

**8.4 Expression of results**

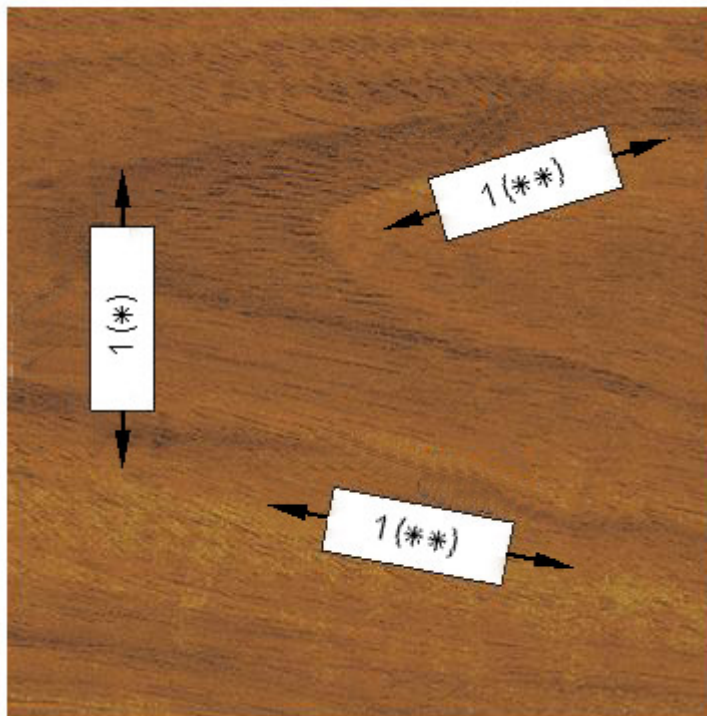
The result is expressed in gloss units.

Calculate the mean value of the four values.

If the spread of the values exceeds 10 gloss units or 20 % of the mean value, the measurement shall be considered invalid and the procedure shall be repeated using four different points of the test surface. If the result fails again, the specular surface gloss can not be assessed.

ITh STANDARD PREVIEW  
(standards.iteh.ai)





**Key**

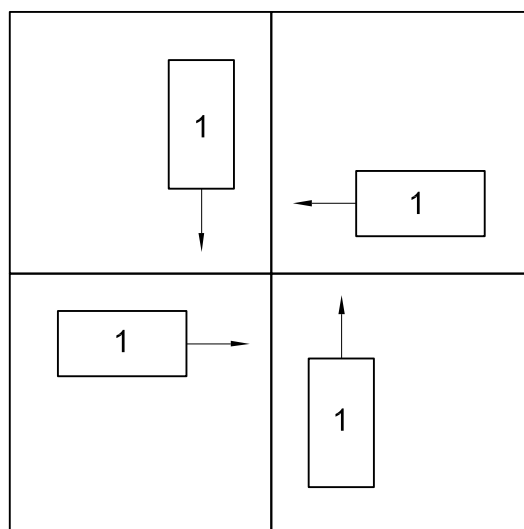
- 1 Glossmeter direction
- (\*) Not correct
- (\*\*) Correct

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 13722:2004](https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004)

<https://standards.iteh.ai/catalog/standards/sist/028c4207-d300-44ee-abdc-7f9c349a4a9d/sist-en-13722-2004>

**Figure 1 — Textured and open grain surfaces**



**Key**

- 1 Glossmeter direction

**Figure 2 — Other surfaces**