

Klaassarrusplastid. Kõvaduse mõõtmine Barcoli templi abil

Glass reinforced plastics - Measurement of hardness by means of a Barcol impressor

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 59:2000 sisaldab Euroopa standardi EN 59:1977 ingliskeelset teksti.

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English version

GLASS REINFORCED PLASTICS

MEASUREMENT OF HARDNESS BY MEANS OF A BARCOL IMPRESSOR

Matières plastiques renforcées
au verre textile.
Mesure de la dureté au duromètre
barcol.

Glasfaserverstärkte Kunststoffe.
Bestimmung der Härte mit dem
Barcol-Härteprüfgerät.

This European Standard was accepted by CEN on 1977-03-31. The CEN members are bound to adhere to the CEN Internal Regulations which specify under which conditions this European Standard has to be given, without any alteration, the status of a national standard.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
Comité Européen de Normalisation
Europäisches Komitee für Normung

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BRIEF HISTORY

This European Standard was drawn up by CEN Technical Committee 66 "Testing of glass fibre reinforced plastics", the Secretariat of which is held by AFNOR.

The contents of this Standard were submitted for ballot to the members of CEN in November 1974 in view of its adoption as a European Standard.

This European Standard was adopted by CEN as a result of its acceptance by the following member countries :

Austria, Belgium, Denmark, France, Germany, Ireland, Italy, Portugal, Sweden, United Kingdom.

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GLASS REINFORCED PLASTICS - MEASUREMENT OF HARDNESS
BY MEANS OF A BARCOL IMPRESSOR

1. SCOPE

This European Standard describes the determination of indentation hardness of glass reinforced plastics materials using a Barcol Impressor, Model No 934-1.

NOTE 1: The Barcol impressor is portable and therefore suitable for testing the hardness of fabricated parts and individual test specimens for production control purposes.

2. REFERENCE

EN 62 -- Glass reinforced plastics - Standard atmospheres for conditioning and testing.

3. APPARATUS

The apparatus (see Figure 1) is a Barcol Impressor, Model No 934-1 which consists of the following parts:

3.1 Indenter. The indenter shall consist of a hardened steel truncated cone having an angle of 26 degrees with a flat tip of diameter 0.157 mm. It shall fit into a hollow spindle and be held down by a spring-loaded plunger.

3.2 Indicating device. The indicating dial shall have 100 divisions, each representing a penetration depth of 0.0076 mm. The dial shall read directly in Barcol hardness units; the higher the reading the harder the material.

4. TEST SPECIMENS

4.1 Test surface. The testing area shall be smooth and free from mechanical damage (such as scratches or holes).

4.2 Dimensions. Test specimens shall be at least 1.5 mm thick and large enough to ensure a minimum distance of 3 mm in any direction from the indenter tip to the edge of the specimen or to another earlier test position.