

**Lennunduse ja kosmonautika seeria.
Klaassarrisplastid. Katsemeetod.
Kihtidevahelise näiva nihketugevuse määramine**

Aerospace series - Glass fibre reinforced plastics -
Test method - Determination of apparent
interlaminar shear strength

EESTI STANDARDI EESSÕNA

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EUROPEAN STANDARD
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EN 2377

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English version

Aerospace series

Glass fibre reinforced plastics

Test method

Determination of apparent
interlaminar shear strength

Série aérospatiale
Plastiques renforcés de fibres de verre
Méthode d'essai
Détermination des propriétés
en cisaillement apparent interlaminaire

Luft- und Raumfahrt
Glasfaserverstärkte Kunststoffe
Prüfverfahren zur
Bestimmung der scheinbaren
interlaminaren Scherfestigkeit

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CEN

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

Central Secretariat : Rue Bréderode 2, B—1000 Bruxelles

Brief History

This draft European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After enquiries and votes carried out in accordance with the rules of this Association, this draft has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxemburg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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Annex A

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1 Scope and field of application

This standard defines a method for the determination of the apparent interlaminar shear strength by delamination of textile glass fibre reinforced plastics produced in sheet form for aerospace use.

2 References

- EN 62 Glass reinforced plastics - Standard atmospheres for conditioning and testing
- EN 2374 Aerospace series - Glass fibre reinforced mouldings and sandwich composites - Production of test panels

3 Definition

The apparent interlaminar shear strength is the maximum interlaminar shear stress at the moment of first failure. It is expressed in MPa.

4 Principle of the method

For the determination of the resistance to interlaminar shear parallel to the layers of reinforcement, a specimen of rectangular cross section is tested in flexion. The specimen resting on two supports and the force applied by means of a loading nose midway between the supports.

5 Test specimens

The test specimens are prepared according to EN 2374.

5.1 Dimensions

5.1.1 Standard specimens

Length l : $(20 \pm 0,5)$ mm

Width b : $(10 \pm 0,2)$ mm

Thickness h : $(3 \pm 0,2)$ mm

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