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ISO 14125:1998 (R2013) Fibre-reinforced plastic composites - Determination of flexural properties

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Abbreviation

ISO 14125:1998

Amendment

ISO 14125:1998/Cor 1:2001 ISO 14125:1998/Amd 1:2011

Valid from

02/04/1998

Information provider

Standards New Zealand

Author

International Organization for Standardization

Information type

ISO Standard

Format

PDF

Cited By

[This resource is cited by 2 documents \(show Citations\)](#)

Description

This International Standard specifies a method for determining the flexural properties of fibre-reinforced plastic composites under three-point (Method A) and four-point (Method B) loading. Standard test specimens are defined but parameters included for alternative specimen sizes for use where appropriate. A range of test speeds is included.

The method is not suitable for the determination of design parameters, but may be used for screening materials, or as a quality-control test.

Note: For example, the flexural modulus is only an appropriate value of the tensile Young's modulus of elasticity as the test is not for the additional deflection due to the shear stress which leads to a lower value of the flexural modulus but uses test span/specimen thickness ratios that minimise this effect. Differences between tensile and flexural properties are also caused by the material structure/lay-up.

Scope

The method is suitable for fibre-reinforced thermoplastic and thermosetting plastic composites. Unreinforced and particle-filled plastics and plastics reinforced with short (i.e. less than 1 mm length) fibres are covered by ISO 178.

The method is performed using specimens which may be moulded to the chosen dimensions, machined from the central portion of the standard multi-purpose test specimen (see ISO 3167) or machined from semi-finished

or finished products such as mouldings or laminates.

The method specifies preferred dimensions for the specimen. Tests which are carried out on specimens of other dimensions, or on specimens which are prepared under different conditions, may produce results which are not comparable. Other factors, such as the speed of testing and the conditioning of the specimens can influence the results. For materials which are not homogeneous through the section, or above the linear-elastic response region, the result applies only to the thickness and structure tested. Consequently, when comparative data are required, these factors must be carefully controlled and recorded.

For assistance with locating previous versions, please contact the information provider.

Notes/comments

This Standard is referenced by AS/NZS 1546.1:2008 in regard to septic tanks.

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- [AS/NZS 1546.1:2008](#)

ISO 14125:1998 is cited by AS/NZS 1546.1:2008 On-site domestic wastewater treatment units: Septic tanks

- [BS EN 13121-3:2008](#)

ISO 14125:1998 is cited by BS EN 13121-3:2008 GRP tanks and vessels for use above ground. Design and workmanship

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