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- [Home Home](#)
- [About this portal](#)
- [Latest updates](#)

[Print](#) [Save](#) [Email](#)

[Resource detail](#)

[Citations](#)

ASTM D638 - 03 Standard Test Method for Tensile Properties of Plastics

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Abbreviation

ASTM D638 - 03

Valid from

01/12/2003

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

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Description

This test method covers the determination of the tensile properties of unreinforced and reinforced plastics in the form of standard dumbbell-shaped test specimens when tested under defined conditions of pretreatment, temperature, humidity, and testing machine speed.

Scope

This test method covers the determination of the tensile properties of unreinforced and reinforced plastics in the form of standard dumbbell-shaped test specimens when tested under defined conditions of pretreatment, temperature, humidity, and testing machine speed.

This test method can be used for testing materials of any thickness up to 14 mm [0.55 in.]. However, for testing specimens in the form of thin sheeting, including film less than 1.0 mm [0.04 in.] in thickness, Test Methods D 882 is the preferred test method. Materials with a thickness greater than 14 mm [0.55 in.] must be reduced by machining.

This test method includes the option of determining Poisson's ratio at room temperature.

Test data obtained by this test method are relevant and appropriate for use in engineering design.

The values stated in SI units are to be regarded as the standard. The values given in brackets are for information only.

This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>		

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