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## ASTM D882 - 02 Standard Test Method for Tensile Properties of Thin Plastic Sheeting

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### Abbreviation

ASTM D882 - 02

### Valid from

10/04/2002

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### Information provider

American Society of Testing and Materials

### Author

American Society for Testing and Materials

### Information type

ASTM Standard

### Format

PDF

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### Description

This test method covers the determination of tensile properties of plastics in the form of thin sheeting, including film.

### Scope

This test method covers the determination of tensile properties of plastics in the form of thin sheeting, including film (less than 1.0 mm (0.04 in.) in thickness).

- Note 1) Film has been arbitrarily defined as sheeting having nominal thickness not greater than 0.25 mm (0.010 in.).
- Note 2) Tensile properties of plastics 1.0 mm (0.04 in.) or greater in thickness shall be determined according to Test Method D638.

This test method may be used to test all plastics within the thickness range described and the capacity of the machine employed.

Static Weighing, Constant-Rate-of-Grip Separation Test - This test method employs a constant rate of separation of the grips holding the ends of the test specimen.

Specimen extension may be measured in these test methods by grip separation, extension indicators, or displacement of gage marks.

A procedure for determining the tensile modulus of elasticity is included at one strain rate.

- Note 3) The modulus determination is generally based on the use of grip separation as a measure of extension; however, the desirability of using extensometers, as described in 5.2, is recognized and provision for the use of such instrumentation is incorporated in the procedure.

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

The values stated in SI units are to be regarded as the standard. The values in parentheses are provided 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.

- Note 4) This test method is similar to ISO 527-3, but is not considered technically equivalent. ISO 527-3 allows for additional specimen configurations, specifies different test speeds, and requires an extensometer or gage marks on the specimen.

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