ASTM D412 Testing Fixture

This method covers the effect of the application of a tension load to vulcanized rubber and similar rubber-like material at room temperature and elevate temperature. Covered are tests for tensile stress, tensile strength, ultimate elongation and set. The method is not applicable to the testing of material ordinarily classified as ebonite or hard rubber.

ASTM D 412 Testing Fixture – Drawing

Test Standard	ASTM D 418 / no ISO equivalent
Maximum Load	90 kN
Temperature Range	da -80 °C a 149 °C
Specimen Thickness	1.5 – 3 mm
Specimen Width	40 mm

Specimen Length	210 mm
Mass	0.3 Kg

ASTM D 412 Testing Fixture – Assembly

ASTM D 412 Testing Fixture – Application

Referenced Documents

ASTM Standards

- D1349 Practice for Rubber–Standard Temperatures for Testing
- D1566 Terminology Relating to Rubber

- D3182 Practice for Rubber–Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets
- D3183 Practice for Rubber–Preparation of Pieces for Test Purposes from Products
- D3767 Practice for Rubber–Measurement of Dimensions
- D4483 Practice for Evaluating Precision for Test Method Standards in the Rubber and Carbon Black Manufacturing Industries
- E4 Practices for Force Verification of Testing Machines

ISO Standards

ISO 37 Rubber, Vulcanized and Thermoplastic Determination of Tensile Stress-Strain Properties Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.