

EN ISO 10319:2008 – Geosynthetics – Wide-width tensile test

IMPORTANT: This information sheet is not a standard. The full text of the standard can be obtained from your national standardization body.

Revision of ISO 10319:1993.

Scope:

Index test method for the determination of the tensile properties of geotextiles and related products, using a wide-width strip.

Applicable to most geotextiles, including woven fabrics, nonwovens, geocomposites, knitted fabrics and felts. Applicable to geogrids, provided specimen dimensions are altered.

Covers the measurement of load-elongation characteristics, including the calculation of secant stiffness, maximum load per unit width and strain at maximum load.

Principle:

The test, for all kinds of geotextiles and geogrids, uses conditioned test specimens of 200 mm width and of 100 mm length

A test specimen is held in the jaws of a tensile testing machine, operated at a rate of strain of (20 ± 5) % per minute, and a longitudinal force applied until the specimen ruptures.

Measurement of the extension of the test specimen is carried out by means of an extensometer.

Five specimens in both machine direction and cross direction are tested.

Tensile strength (in kN/m), strain at maximum load (in %) and secant stiffness (in kN/m at 2, 5 and 10 % strain) are measured:

Mean values, individual values and standard deviation or coefficient of variation of these properties are reported.

Comment:

- Specimens may be tested in wet or dry state.
- See also EN ISO 10321:2008 Geotextiles - Tensile test for joints/seams by wide-width method.