

EN ISO 13438:2004 – Geotextiles and geotextile-related products – Screening test method for determining the resistance to oxidation

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

Supersedes ENV 13438:1996.

Scope:

Test method for screening the resistance to oxidation, in particular applicable to polypropylene and polyethylene based products.

The data are suitable for screening in service up to 25 years, but not for deriving performance data such as lifetime unless supported by further evidence.

Principle of test:

Six test procedures are described (A1, A2, B1, B2, C1, C2).

Method	Temperature	Duration	Atmosphere
A1	110 °C	14 days	normal
A2	110 °C	56 days	normal
B1	100 °C	28 days	normal
B2	100 °C	56 days	normal
C1	80 °C	14 days	Oxygen (50 bar)
C2	80 °C	28 days	Oxygen (50 bar)

Method A is intended for PP, method B for PE.

The shorter test durations are used for non-reinforcing applications. The longer durations are for reinforcing applications.

Number of specimens:

Five test specimens and five control specimens

Expression of results

Percentage retained strength or elongation, compared to the reference specimens

Comment:

Further guidance on durability assessment can be found in ISO/TS 13434:2008 Geosynthetics – Guidelines for the assessment of durability, and in the annexes B and E of the product standards.