DIN EN 13251:2016-12 (E)

Geotextiles and geotextile-related products - Characteristics required for use in earthworks, foundations and retaining structures

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms, definitions and abbreviations 7
3.1 Terms and definitions 7
3.2 Abbreviations 8

4 Required characteristics and corresponding methods of test 8
4.1 General 8
4.2 Selection of the appropriate standard in a specific application 8
4.3 Characteristics relevant to specific conditions of use 11
4.3.1 Stiffness at 2 %, 5 % and 10 % 11
4.3.2 Tensile strength of seams and joints 11
4.3.3 Static puncture 11
4.3.4 Friction characteristics 11
4.3.5 Tensile creep 11
4.3.6 Resistance to damage during installation 11
4.3.7 Water permeability normal to the plane 11
4.4 Release of dangerous substances 11

5 Assessment and verification of constancy of performance (AVCP) 12
5.1 General 12
5.2 Presentation of characteristics 12
5.3 Product type determination (PTD) 12
5.4 Factory production control (FPC) 13
5.5 Verification of values 13
5.6 Initial inspection of factory and of FPC 14
5.7 Continuous surveillance of FPC 14

6 Marking 14

Annex A (normative) Factory production control (FPC) 15

A.1 Factory production control scheme 15
A.1.1 General 15
A.1.2 Product design 15
A.1.3 Production 15
A.1.4 Finished products 15
A.1.5 Provisions applicable to A.1.2, A.1.3 and A.1.4 (to be used where appropriate) 16
A.2 Assessment of a factory production control (FPC) system 17
A.2.1 General 17
A.2.2 Checklist 17
A.2.3 Test frequency 21

Annex B (normative) Durability aspects 22

B.1 General ... 22
B.1.1 Service life ... 22
B.1.2 Initial and repeat testing of durability ... 22
B.1.3 Use of rework material ... 23
B.2 Weathering (all products) ... 23
B.3 Products used in non-reinforcing applications and with service lives up to 5 years ... 23
B.4 Other applications and service lives up to 25 years, 50 years and 100 years ... 24
B.4.1 General ... 24
B.4.2 Tests for specific materials ... 24

Annex C (informative) Guidelines for the selection of the appropriate standard in a specific application ... 28

Annex D (informative) Significant technical changes to superseded versions of this standard ... 30

Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation ... 31

ZA.1 Scope and relevant characteristics ... 31

ZA.2 Procedure for AVCP of Geotextiles and geotextiles-related products for the use in the construction of earthworks, foundations and retaining structures ... 36

ZA.2.1 Systems of AVCP ... 36

ZA.2.2 Declaration of performance (DoP) ... 39

ZA.3 CE marking and labelling ... 43

Bibliography ... 44