DIN EN 14313:2016-03 (E)

Thermal insulation products for building equipment and industrial installations - Factory made polyethylene foam (PEF) products - Specification

Contents

Page

European foreword 4

1 Scope 6

2 Normative references 6

3 Terms, definitions, symbols, units and abbreviated terms 8
3.1 Terms and definitions 8
3.1.1 Terms and definitions as given in EN ISO 9229:2007 8
3.1.2 Additional terms and definitions 8
3.2 Symbols, units and abbreviated terms 9
3.2.1 Symbols and units used in this standard 9
3.2.2 Abbreviated terms used in this standard 10

4 Requirements 10
4.1 General 10
4.2 For all applications 11
4.2.1 Thermal conductivity 11
4.2.2 Dimensions and tolerances 11
4.2.3 Dimensional stability 12
4.2.4 Reaction to fire of the product as placed on the market 12
4.2.5 Durability characteristics 13
4.3 For specific applications 13
4.3.1 General 13
4.3.2 Maximum service temperature 13
4.3.3 Minimum service temperature 13
4.3.4 Water absorption 14
4.3.5 Water vapour diffusion resistance 14
4.3.6 Trace quantities of water-soluble ions and the pH-value 14
4.3.7 Structure-borne sound transmission 15
4.3.8 Sound absorption 15
4.3.9 Release of dangerous substances 15
4.3.10 Continuous glowing combustion 15

5 Test methods 15
5.1 Sampling 15
5.2 Conditioning 15
5.3 Testing 16
5.3.1 General 16
5.3.2 Thermal conductivity 18
5.3.3 Reaction to fire 18

6 Designation code 19

7 Assessment and Verification of the Constancy of Performance (AVCP) 19
7.1 General 19
7.2 Product Type Determination (PTD) 20
7.3 Factory Production Control (FPC) 20

8 Marking and labelling 20

Annex A (normative) Factory production control 21

Annex B (normative) Determination of minimum service temperature 23

B.1 Definitions 23
B.2 Principle 23
B.3 Apparatus 23
B.4 Test specimens 23
B.5 Procedure 24
B.6 Calculation and expression of results 24
B.7 Test report 25

Annex C (informative) Additional properties 26

C.1 General 26
C.2 Water vapour diffusion resistance 26
C.3 Density 26
C.4 Compressive strength 26

Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation 28

ZA.1 Scope and relevant characteristics 28

ZA.2 Procedures for AVCP of factory made polyethylene foam (PEF) products 30

ZA.3 CE Marking and labelling 37

Bibliography 39