DIN EN 14125:2025-05 (E)

Thermoplastic and flexible metal pipework for underground installation at petrol filling stations

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 8

4 Classes and dimensions 9
4.1 Classes of pipework 9
4.2 Fittings 10
4.3 Dimensional tolerances 10

5 Physical properties 10
5.1 Pressure 10
5.1.1 General 10
5.1.2 Hydrostatic pressure 10
5.1.3 Vacuum 11
5.1.4 Cyclic pressure 11
5.2 Estimated working life 11
5.3 Temperature 11
5.4 Mechanical tests 12
5.4.1 Crush test 12
5.4.2 Bend radius test 12
5.4.3 Impact test 12
5.4.4 Puncture test 12
5.4.5 Pull test 12
5.5 Fuel tests 13
5.5.1 Fuel compatibility 13
5.5.2 Fuel permeability 13
5.5.3 Swelling 14
5.6 Static electricity 14
5.6.1 General 14
5.6.2 Requirements for insulating plastic pipe systems 14
5.6.3 Requirements for plastic pipe systems with conductive or dissipative linings 14
5.7 Weathering 14
5.8 Corrosion resistance 14
5.9 Summary of tests 15

6 Production control 16

7 Testing 16
7.1 General items referring to the test methods 16
7.1.1 Selection of test samples from a product range 16
7.1.2 Number of samples 16
7.1.3 Tests following conditioning 16
7.1.4 Combined tests 17
7.1.5 Procedure for retesting 17
7.1.6 Test fuels 18

7.2 Test methods 18
7.2.1 Hydrostatic pressure 18
7.2.2 Vacuum test 19
7.2.3 Cyclic pressure test 19
7.2.4 Crush test 20
7.2.5 Bend radius test 20
7.2.6 Impact test 21
7.2.7 Puncture resistance 21
7.2.8 Fuel compatibility test 21
7.2.9 Fuel permeability test 22
7.2.10 Longitudinal swelling 23
7.2.11 Pull-out test 23
7.2.12 Fitting pull-out test 24

8 Markings on pipe and fittings 24

9 Manuals 26
9.1 Product manual 26
9.2 Installation manuals 26

10 Records 26

Annex A (informative) A-deviations 27

Annex B (informative) Static electricity 29

Annex C (informative) Environmental aspects 33

Bibliography 36