DIN EN 12221:2026-06 (E)

Child care articles - Changing units and changing pads for domestic use - Safety requirements and test methods

Contents

Page

European foreword 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Test equipment 7
4.1 Test mass A 7
4.2 Test mass B 8
4.3 Small parts cylinder 9
4.4 Feeler gauge 9
4.5 Test probes for finger entrapment 9
4.5.1 Test probes with hemispherical end 9
4.5.2 Test probe for mesh 10
4.5.3 Shape assessment probe 11
4.6 Test probes for limb entrapment 11
4.7 Test probes for head entrapment 12
4.7.1 Small head probe 12
4.7.2 Large head probe 12
4.7.3 Template for partially bound and V shaped openings 13
4.8 Test floor for floor standing units 13
4.9 Test wall for wall mounted changing units 13
4.10 Test base for bath mounted units 13
4.11 Stops 14
4.12 Test beam 14
4.13 Measuring rod for test beam 14
4.14 Side impactor 14
4.15 Loading pad 15
4.16 Aluminium oxide abrasive paper 15
4.17 Test rig 15

5 General requirements and test conditions 16
5.1 Product conditioning 16
5.2 Test conditions 16
5.3 Application of forces 16
5.4 Tolerances of the test equipment 16
5.5 Determination of protected volume (see A.4.1) 17
5.6 Order of tests 18

6 Chemical hazards (see A.2) 18
6.1 General 18
6.2 Migration of certain elements 18
6.3 Formaldehyde 18

7 Thermal hazards (see A.3) 18

8 Mechanical hazards 19
8.1 Changing pads 19
8.2 Hazards due to inadequate size (see A.4.2) 19

8.2.1 Requirements 19
8.2.2 Test methods 19
8.2.3 Measurement of width 19
8.2.4 Measurement of the length 20
8.3 Entrapment hazards 20
8.3.1 Entrapment of fingers (see A.4.3.1) 20
8.3.2 Entrapment of limbs 21
8.3.3 Entrapment of head, neck and torso (see A.4.3.2) 21
8.4 Hazards due to moving parts (see A.4.4) 23
8.4.1 Requirements for compression points 23
8.4.2 Requirements for shear points 24
8.5 Hazards due to falling of the child (see A.4.5) 24
8.5.1 General 24
8.5.2 Barriers 24
8.6 Hazards due to folding of the product (see A.4.6) 27
8.6.1 Requirements 27
8.6.2 Unintentional release of locking mechanism(s) 28
8.6.3 Strength test of locking and folding system 28
8.7 Hazards from entanglement in cords, ribbons and similar parts (see A.4.7) 28
8.7.1 Requirements 28
8.7.2 Test method 29
8.8 Choking and ingestion hazard (see A.4.8) 29
8.8.1 Requirements 29
8.8.2 Test methods 30
8.9 Suffocation hazards from plastic packaging (see A.4.9) 31
8.10 Hazards from edges, corners and protruding parts (see A.4.10) 31
8.11 Hazards from inadequate structural integrity (see A.4.11) 32
8.11.1 Requirements 32
8.11.2 Test methods 32
8.12 Hazards from inadequate stability (see A.4.12) 34
8.12.1 Requirements 34
8.12.2 Test method for floor standing changing units 34
8.12.3 Test method for bathtub mounted changing units 36
8.12.4 Test method for changing unit accessories 37
8.13 Castors and wheels 37
8.13.1 Requirements 37
8.13.2 Requirements for parking device 37
8.13.3 Test methods for lockable wheels 37
8.14 Extension elements 38

9 Product information 38
9.1 General 38
9.2 Marking of the product 39
9.2.1 General requirements 39
9.2.2 Durability of marking 40
9.2.3 Test method for durability of marking 40
9.3 Purchase information 40
9.4 Instructions for use 41

Annex A (informative) Rationales 43

A.1 Introduction 43
A.2 Chemical hazards (see Clause 6) 43
A.3 Thermal hazards (see Clause 7) 43
A.4 Mechanical hazards (see Clause 8) 43

Bibliography 47