DIN EN 1272:2017-08 (E)

Child care articles - Table mounted chairs - 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 probes for finger entrapment 7

Figure 1 -- Test probes with hemispherical end 7

Figure 2 -- Test probe for mesh with hemispherical end 8
4.2 Test masses 8
4.2.1 Test mass A 8

Figure 3 -- Test mass A 8
4.2.2 Test mass B 9

Figure 4 -- Test mass B 9
4.2.3 Test mass C 9

Figure 5 -- Test mass C 10
4.3 Small torso probe 10

Figure 6 -- Small torso probe 10
4.4 Test foam 11
4.5 Small parts cylinder 11

Figure 7 -- Small parts cylinder 11
4.6 Feeler gauge 11

Figure 8 -- Feeler gauge 11
4.7 Test surface 12
4.8 Loading pad 12
4.9 Bouncing test machine 12
4.10 Test bar 12

5 General 12
5.1 General requirements 12
5.2 Product conditioning 12
5.3 Test conditions 12
5.4 Application of forces 13
5.5 Tolerances 13
5.6 Order of test 13

6 Chemical hazards 13
6.1 General 13
6.2 Migration of certain elements (see A.2) 13

Table 1 -- Limits for heavy metals migration 13

6.3 Formaldehyde (see A.2) 14
6.4 Colorants and primary aromatic amines (see A.2) 14

Table 2 -- Colourants limits 15

Table 3 -- Primary aromatic amines limits 15

7 Thermal hazards (see A.3) 15
7.1 Requirement 15
7.2 Test method 16

8 Mechanical hazards (see A.4) 16
8.1 Hazards due to folding or dismantling of the product 16
8.1.1 General 16
8.1.2 Removable seat unit 16
8.2 Entrapment hazards (see A.4.1) 16
8.2.1 Entrapment of fingers 16
8.2.2 Entrapment of head 17
8.3 Hazards due to moving parts (see A.4.2) 17
8.3.1 Requirements for compression points 17
8.3.2 Requirements for shear points 17
8.4 Entanglement hazards (see A.4.3) 18
8.4.1 Requirements 18

Figure 9 -- Examples of measuring cords, ribbons or similar parts 18
8.4.2 Test method 18
8.5 Choking and ingestion hazards (see A.4.4) 19
8.5.1 Requirements 19
8.5.2 Test methods 19
8.6 Suffocation hazards (see A.4.5) 20
8.6.1 Plastic packaging - Requirement 20
8.6.2 Plastic decals 20
8.7 Hazardous edges, corners and protruding parts (see A.4.6) 20
8.8 Hazards from inadequate structural integrity (see A.4.7) 20
8.8.1 Static strength 20
8.8.2 Dynamic strength 21
8.8.3 Slippage of anchoring supports 21

Figure 10 -- Test method for anchoring support 22
8.8.4 Bouncing performance 22
8.9 Hazards due to falling 23
8.9.1 Footrests 23
8.9.2 Restraint system 23
8.9.3 Lateral protection and backrest height 24

Figure 11 -- Measurement of lateral protection and backrest height 24

9 Product information 25
9.1 General 25
9.2 Marking of the product 25
9.2.1 Requirements 25
9.2.2 Durability of marking 25
9.2.3 Test method for durability of marking 25
9.3 Purchase information 25

Figure 12 -- Symbol for age and weight range 26
9.4 Instructions for use 26

Annex A (informative) Rationales 28

A.1 Introduction 28
A.2 Chemical hazards (see Clause 6) 28

A.3 Thermal hazards (see Clause 7) 28
A.4 Mechanical hazards (see Clause 8) 28
A.4.1 Entrapment hazards (8.2) 28
A.4.2 Hazards due to moving parts (8.3) 29
A.4.3 Entanglement hazards (8.4) 29
A.4.4 Choking and ingestion hazards (8.5) 29
A.4.5 Suffocation hazards (8.6) 29
A.4.6 Hazardous edges, corners and protruding parts (8.7) 29
A.4.7 Hazards from inadequate structural integrity (8.8) 29
A.4.8 Hazards due to falling (8.9) 29

Annex B (normative) Warnings 30

Table B.1 -- Translation of warning phrases 30

Annex C (informative) A-deviations 35