

ICS 97.200.50

Y 57



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC  
OF CHINA**

**中华人民共和国国家标准**

GB 29281-2012

---

**Safety requirements for playpens and  
similar cribs**

**游戏围栏及类似用途童床的安全要求**

**Issued on December 31, 2012**

**Implemented on May 01, 2014**

**Issued by General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of China**

## Contents

<b>Foreword</b> .....	1
<b>1 Scope</b> .....	2
<b>2 Normative References</b> .....	2
<b>3 Terms and definitions</b> .....	3
<b>4 Safety requirements</b> .....	5
<b>4.1 Materials</b> .....	5
<b>4.2 Structure</b> .....	5
<b>4.2.1 Hole, opening and clearance</b> .....	5
<b>4.2.2 Edge, point and angle</b> .....	7
<b>4.2.3 Moving parts</b> .....	8
<b>4.2.4 Filling material of the playpens and similar cribs</b> .....	10
<b>4.2.5 Castor or roller</b> .....	10
<b>4.2.6 Coupling screw</b> .....	11
<b>4.2.7 Barriers caused by the protrusion</b> .....	11
<b>4.2.8 Base</b> .....	11
<b>4.2.9 Side plate</b> .....	11
<b>4.2.10 Stability</b> .....	12
<b>4.2.11 Size</b> .....	12
<b>4.2.12 Small parts</b> .....	12
<b>4.3 Packaging</b> .....	12
<b>4.4 Identification and use instructions</b> .....	13
<b>5 Test method</b> .....	14
<b>5.1 General provisions</b> .....	14
<b>5.2 Material test</b> .....	15
<b>5.3 Measurement of structure size</b> .....	16
<b>5.4 Shear and squeeze points</b> .....	22
<b>5.5 Foothold</b> .....	22
<b>5.6 Small parts</b> .....	24
<b>5.7 Occlusion test</b> .....	24
<b>5.8 Detect the protrusions</b> .....	26
<b>5.9 Folding and locking mechanism</b> .....	26
<b>5.10 Base</b> .....	27
<b>5.11 Strength</b> .....	29
<b>5.12 Stability test</b> .....	34
<b>5.13 Castor or roller</b> .....	35
<b>5.14 Packaging</b> .....	35
<b>5.15 Identification and instructions</b> .....	35
<b>Annex A (Informative) Size view</b> .....	36
<b>Annex B (Informative) Flow chart for shear and squeeze points test</b> .....	38

## Foreword

**Provisions in Clause 4 of this standard are mandatory, and the remainders are recommendatory.**

This standard is prepared according to the rules specified in GB/T 1.1-2009.

This standard refers to BS EN 12227-1:1999 *Household Playpen Part 1: Safety Requirements*, BS EN 12227-2: 1999 *Household Playpen Part 2: Test Method*, ISO 7175-1:1997 *Household Cribs and Small Folding Bed Part 1: Safety Requirements*, ISO 7175-2:1997 *Household Cribs and Small Folding Bed Part 2: Test Method*; the degree of consistency is not equivalent.

This standard is proposed by China National Light Industry Council.

The standard is under the jurisdiction of National Technical Committee of Standardization for Toys (SAC/TC 253).

The responsible drafting organizations are Shanghai Institute of Quality Inspection and Technical Research, Guangdong Roadmate Group Co., Ltd., Zhongshan Lerado Daily Necessities Co., Ltd., Goodbaby Child Products Co., Ltd., Ningbo Mybaby Baby Items Manufacturing Co., Ltd., Ningbo Shinema Group Co., Ltd., Guangdong Entry-exit Inspection and Quarantine Bureau Technology Center Toys Laboratory, Fujian Inspection and Research Institute for Product Quality, Beijing Certification Center of Light Industry Council.

The chief drafting staff of this standard includes Zhang Ruohong, Chen Jingru, Lei Zaiming, Peng Xinyu, Chen Zhaoren, Zhou Jiapeng, Xu Yinchang, Li Junqi, Chen Wei.

# Safety requirements for playpens and similar cribs

## 1 Scope

This standard specifies the safety requirements and test methods of playpens and similar cribs.

This standard applies to the household playpens and similar cribs used for children not more than 15kg, but not to cradles and hammocks.

This standard does not apply to hanging toys, fitness toys and similar toys of playpens and similar cribs, it apply to the safety requirements of playpens and similar cribs that can be to the other functions either.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 2912.1-2009 Textiles—Determination of formaldehyde—Part 1: Free and hydrolyzed formaldehyde (water extraction method)

GB/T 3920-2008 Textiles—Tests for colour fastness—Colour fastness to rubbing

GB/T 3922-1995 Textiles--Testing method for colour fastness to perspiration

GB 5296.5-2006 Instructions for use of products of consumer interest—Part 5: toys

GB 5296.6-2004 Instructions for use of products of consumer interest—Part 6:furniture

GB/T 5713-1997 Textiles-Tests for colour fastness-Colour fastness to water

GB 6675 National safety technical code for toys

GB/T 7573-2009 Textiles—Determination of pH of aqueous extract

GB/T 10807-2006 Flexible cellular polymeric materials—Determination of hardness (indentation technique)

GB/T 17592-2011 Textiles—Determination of the banned azo colourants

GB 18401 National general safety technical code for textile products

GB 18584 Indoor decorating and refurbishing materials--Limit of harmful substances of

wood based furniture

GB/T 18886-2002 Textiles-Tests for fastness-Colour fastness to saliva

### **3 Terms and definitions**

For the purpose of this Standard, the following terms and definitions shall apply.

#### **3.1**

##### **Playpen**

A device, scheduled to accommodate children in short-term and surrounded by guardrails for children to play within.

#### **3.2**

##### **Similar crib**

The crib with the purposes of a playpen

#### **3.3**

##### **Folding playpen and similar crib**

The playpens and similar cribs that can be removed or folded for the convenience of transportation and storage

#### **3.4**

##### **Access zone**

In normal use and foreseeable use, the accessible surrounding areas of playpens and similar cribs

Playpens and similar cribs is composed of enclosed side panel and side panel where one can come out from the side; make any point of the side panel where one can come out from the side or any point over the panel as the centre, a zone within an radius of 300mm can be the access zone.

##### **3.4.1**

##### **Access zone 1**

Take the entire interior zone of the playpens and similar cribs where hands cannot come out from the side, and the exterior zone 1400mm above the bottom and 300mm below the upper frame, tested vertically with the base of the playpens and similar cribs as the benchmark, as access zone 1 [see the dotted line in Figure 1a)].

If it is covered by mattress, the base is deemed as inaccessible part.



北京文心雕语翻译有限公司  
Beijing Lancarver Translation Inc.

---

---

---

## 完整版本请在线下单

或咨询：

TEL： 400-678-1309

QQ： 19315219

Email：[info@lancarver.com](mailto:info@lancarver.com)

<http://www.lancarver.com>

---

---

## 对公账户：

单位名称：北京文心雕语翻译有限公司

开 户 行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

---

---

支付宝账户：[info@lancarver.com](mailto:info@lancarver.com)

---

---

注：付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！