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Child-resistant packaging - Requirements and testing procedures for reclosable packages

防止儿童开启包装 可重新盖紧包装的要求与试验方法

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Table of Contents

Foreword.....	3
1 Scope.....	4
2 Terms and definitions	4
3 Requirements.....	5
4 Test	6
5 Test results.....	9
6 Test report	11

Child-resistant packaging - Requirements and testing procedures for reclosable packages

1 Scope

This standard specifies the requirements and test methods for the child-resistant reclosable packages.

This standard applies to the child-resistant reclosable packages (hereinafter referred to as child-resistant package).

2 Terms and definitions

The following terms and definitions apply to this standard.

2.1

Container

The container which is made of metal, glass, plastic or a combination of materials, whose port closure system comes with a locking device.

2.2

Closure

The container lid which is made of metal, glass, plastic or a combination of materials, and is equipped with a sealing device.

2.3

Child-resistant package

It is usually a packaging container with a locking device. It is difficult for children younger than 52 months to open the locking device, but it does not affect the normal use of adults.

2.4

Resealable package

The package that can be re-closed after being opened, for the purpose of repeated use.

It shall select children of different social groups, ethnicities and cultural backgrounds for testing whenever possible. If not, it shall clearly indicate the deviation of the test. It is required that the test children had not participated in the corresponding test before, but it allows the test children to participate in the test of different types of packaging using different principles. If they have participated in the corresponding test, the interval of test time is required to be at least 1 week.

4.3.1.2 Requirements for test environment and personnel

When carrying out children test, it shall select an environment that they are familiar with and feel comfortable, such as their kindergarten or nursery, but it shall take care to avoid unnecessary distractions caused by disturbances. The testers (children) shall be friendly to each other and the parents of the children shall attend the test.

It shall provide tables and chairs when carrying out test for children. If they wish, they can also sit on the ground for testing.

4.3.1.3 Requirements for test process

4.3.1.3.1 It shall test two children at the same time. Each 2 children shall be equipped with 1 supervisor. If necessary, they may be tested in groups, but the number of test personnel in the same room at the same time cannot be more than 5.

4.3.1.3.2 During the test, as long as the child feels convenient and suitable, they can select any method to carry out test. They are not restricted of using their teeth or other methods to open the package.

4.3.1.3.3 In test process, it shall not give any instructions or guidelines on how to open the package.

4.3.1.3.4 In test process, it is not allowed to provide children with any tools or other opening devices. If such tools or opening devices are part of the design of the packaging container, they can access the tool, but it shall not actively draw their attention to the tool, unless it is a demonstration for the child.

4.3.1.3.5 If the test children attempt to leave, the supervisor shall stop and direct them back to continue the test.

4.3.1.4 Test procedure

4.3.1.4.1 Assign test children and supervisors and bring the test children to the test site.

4.3.1.4.2 Give each child a packaging container and ask them to open it within 5 minutes.

4.4.3 Test procedure

4.4.3.1 Provide each test personnel with a packaging container for testing and instructions for how to open and re-close the container. The instructions shall be consistent with the instructions provided to the consumer during the sales process.

4.4.3.2 Within 5 minutes, the test personnel complete the test independently after being familiar with the packaging container and reading the operating instructions.

4.4.3.3 For test personnel who successfully open the test sample within 5 minutes, it shall give them another same packaging container and let them repeat the test within 1 min, that is, open and re-close it.

4.4.3.4 Within 5 minutes, if the test personnel cannot open the packaging container, it will be subjected to screening test again, that is, let the test personnel to open two ordinary non-child resistant test containers within 1 min, as follows:

- a) The 25 mL ~ 50 mL cylindrical plastic container with thread seal, there is continuous sealing thread inside the sealing cap and the diameter is 28 mm, the torque is 1.1 Nm;
- b) The 25 mL ~ 50 mL cylindrical plastic container with non-threaded seal, the sealing cap is fastened on the container, the diameter is 28 mm.

If the test personnel fail to open and re-close the above two containers within 1 min, the adult test result of the test personnel is invalid and needs to be removed. If the test personnel open the above two containers within 1 min, it indicates that the adult test results are valid and the adult test results are failed.

4.4.3.5 Record the adult test results.

5 Test results

5.1 Assessment of child test results

5.1.1 Assessment of the child's whole-group test results

When using the whole-group test of 200 test children, the success of the test results shall meet the following requirements:

- a) When there is no demonstration, at least 85% of the 200 test children failed to open the package within 5 minutes;
- b) After demonstrations for children who failed to open the package within 5

- a) If the number of children who opened the packaging container in the 5 min test is lower than the L1 line in Figure 1, and in the subsequent 5 min test, the number of children who opened the packaging container is lower than the L3 line in Figure 2, then it passes the test;
- b) If the number of children who opened the packaging container in the 5 min test is higher than the L2 line in Figure 1, and in the subsequent 5 min test, the number of children who opened the packaging container is higher than the L4 line in Figure 2, then it fails to pass the test;
- c) If the number of children who opened the packaging container is between the L1 line and the L2 line as well as the L3 and L4 within the 5 min test, it shall be retested.

5.2 Assessment of adult test results

If 90% of the test personnel is able to successfully open the packaging container within 5 minutes, and successfully open and re-close the packaging container within the next 1 minute, it passes the test.

If the test personnel can successfully open the packaging container within 5 minutes but fail to open or re-close the packaging container within 1 min after the subsequent 1 min, it fails to pass the test. It is recorded into the disqualified ratio.

5.3 Final result

Whether it is a child test or an adult test, it shall provide the final result of pass/fail.

6 Test report

6.1 Basic content

- a) The name of the testing organization;
- b) The date of testing;
- c) The manufacturer of packaging container;
- d) The name of the supervisor;
- e) The detailed description of the packaging container for testing;
- f) The description of the contained substitute product for testing.

6.2 Child test

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