



Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

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Item 6 (b) of the provisional agenda

Miscellaneous proposals for amendments to the Model Regulations

on the Transport of Dangerous Goods: packagings, including the use of recycled plastics material

Supplementary note in 6.1.5.3.4 on the target in the drop test for packagings

Transmitted by the expert from China*

Introduction

1. When the drop tests are carried out, the target is an important part. Its performance, flatness, quality, size and other factors could affect the drop test. The targets with different properties and characteristics have different impact effects on the test samples, and different results may be obtained. Accordingly, the performance of the target must meet certain requirements and certain technical parameters.

Necessity of revision

2. In the daily drop tests, the target is a key part. Different factors such as strength, quality, size and flatness would lead to different effects on the test sample, which will eventually affect the test results. Therefore, the performance of the target needs to meet certain technical requirements. The performance requirement of the target is mentioned in 6.1.5.3.4, however there are no specific parameter values. A note on the impact surface with specific parameter values can be found in chapter 4.4 of standard ISO 2248:1985:

"NOTE - In normal circumstance, the impact surface provided shall be:

- *Integral with a mass at least 50 times that of the heaviest package to be tested;*
- *Flat, such that no two points on its surface differ in level by more than 2 mm;*
- *Rigid, such that it will not be deformed by more than 0.1 mm when an area of 100 mm² is loaded statically with 10 kg anywhere on the surface."*

Therefore, China proposes to add a note after the text in 6.1.5.3.4 with the specific parameter values as an operational instruction for the laboratory.

* A/75/6 (Sect.20), para. 20.51

Proposal

3. Add at the end of 6.1.5.3.4 a note on specific technical parameters for the target (impact plate) as follows:

"NOTE: The target is preferred to be:

- Integral with a mass at least 50 times that of the package to be tested;*
 - No two points on its surface differ in level by more than 2 mm;*
 - It will not be deformed by more than 0.1 mm when an area of 100 mm² is loaded statically with 10 kg anywhere on the surface."*
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