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

GB/T 35607-2017

Green product assessment - Furniture

绿色产品评价 家具

(English Translation)

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1 Scope

This Standard specifies the assessment requirements and assessment method for green product of furniture products.

This Standard applies to all furniture products.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 3324, General technical requirements for wooden furniture

GB/T 3325, Metal furniture - General technical requirements

GB/T 5296.6, Instructions for use of products of consumer interest - Part 6:

Furniture

GB 6675.4-2014, Safety of toys - Part 4: Migration of certain elements

GB/T 10357.1, Test of mechanical properties of furniture - Part 1: Strength and durability of tables

GB/T 10357.3, Test of mechanical properties of furniture - Part 3: Strength and durability of chairs and stools

GB/T 10357.5, Test of mechanical properties of furniture - Part 5: Strength and durability of storage units

GB/T 10357.6, Test of mechanical properties of furniture - Part 6: Strength and durability of beds

GB/T 14531, Office furniture - Tables, chairs and stools for reading

GB/T 14532, Office furniture - Wooden cabinets and shelves

GB/T 16288, Marking of plastics products

GB/T 18204.2-2014, Examination methods for public places - Part 2:

GB/T 28951, Forest certification in China - Forest management

GB/T 28952, Forest certification in China - Chain of custody

GB/T 29115, Evaluating guide for raw material saving of industrial enterprises

GB/T 31106, Determination of volatile organic compounds in furniture

GB/T 31107, Environmental chamber for the determination of volatile organic compounds of furniture - General technical requirements

GB/T 32444, General technical requirements for bamboo furniture

GB/T 32487, General technical requirements for plastic furniture

GB/T 33282, General technical requirements for indoor stone furniture

GBZ 2.1, Occupational exposure limits for hazardous agents in the workplace Part 1: Chemical hazardous agents

GBZ 159, Specifications of air sampling for hazardous substances monitoring in the workplace

GBZ/T 160 (all parts), Methods for determination of toxic chemicals in the air of workplace

GBZ/T 192.2, Determination of dust in the air of workplace - Part 2:

Respirable dust concentration

QB/T 1097, Steel filing cabinet

QB/T 1952.1, Upholstered furniture - sofa

QB/T 1952.2, Upholstered furniture - Spring mattress

QB/T 2280, Office furniture - Office chair

QB/T 2384, Wooden desk for writing

QB/T 2385, Valuable hardwood furniture in deep color

QB 2453.1, Children's Cots and Folding Cots for Domestic Use - Part 1:

Safety Requirements

QB/T 2453.2, Children's Cots and Folding Cots for Domestic Use - Part 2:

Test Methods

QB/T 2530, Wooden cabinet a) wooden furniture;

b) metal furniture;

c) bamboo and rattan furniture;

d) plastic furniture;

e) upholstered furniture;

f) glass stone furniture;

g) other furniture.

5.1 General

The green furniture shall meet the following requirements:

- The pollutant discharge status of product manufacturer shall comply with relevant environmental protection laws and regulations, meet the requirements of national or local pollutant discharge standards, and have no major safety accidents or major environmental pollution incidents in the past three years;
- The total amount of pollutants in production enterprise shall be controlled to meet the national and local pollutant discharge total control indicators;
- The management of production enterprise shall establish and operate environmental management system, quality management system and occupational health and safety management system in accordance with

GB/T 24001, GB/T 19001 and GB/T 28001 respectively;

- The product quality level shall meet the requirements of relevant product standards (see Annex A).

5.2 Requirements for assessment indicators

The green assessment indicators for the life cycle of green furniture shall comply with the provisions of Table 1.

Annex B (normative)

Determination of formaldehyde emission and TVOC in sofa

B.1 Instruments and equipment

B.1.1 Climate cabin

In accordance with GB/T 31107.

B.1.2 Sampling instruments and equipment

In accordance with GB/T 31106.

B.2 Test procedures

B.2.1 Pretreatment

Before the test, measure and record the total area of the testing sample (visible surface), and pretreat the testing sample. The requirements for pretreatment are as follows:

The pretreatment time is (120 ± 2) h.

The environmental conditions of pretreatment are:

- the temperature is $(23 \pm 2)^{\circ}\text{C}$;
- the relative humidity is $(45 \pm 10)\%$;
- the gas exchange rate: (1 ± 0.05) h

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- the distance between samples is not less than 300mm;
- the concentration of formaldehyde in ambient air is ≤ 0.050 mg/m³, and the concentration of TVOC is ≤ 0.60 mg/m³

B.2.2 Preparation before test

The load factor during the test is 0.30 m

/m

~ 0.70 m

/m

. The standard load factor is specified as 0.5 m

/m

. When the sample carrying rate is not equal to

0.5 m

/m

3, calculate the air exchange rate according to formula (B.1):

- After 20 h, double the air sample at the gas cabin outlet.

NOTE 1: If the gas background concentration in the test cabin before the sample is placed is higher