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Travelling case and trolley bag

旅行箱包

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard is a revision of QB/T 2155-2010 "Travelling case and Trolley bag".

Compared with QB/T 2155-2010, in addition to the editorial modifications, the main technical changes are as follows:

- modified and added references in "Normative references";
- modified and added the content of "Product classification";
- added the content of "Raw materials and accessories";
- deleted the requirements for "superior products";
- refined "case (bag) specified load";
- modified the requirements and test methods for "walking performance" "oscillation impact" "stitching strength" "performance of fabric rubbing color fastness";
- modified "impact resistance" to "drop performance", and modified the test methods for "drop performance";
- modified "hardness of the top layer of the aluminum mouth of the case" to the "hardness of the aluminum mouth of the case" and refined the test methods of "hardness of the aluminum mouth of the case";
- modified "case (bag) lock" to "case (bag) lock durability performance";
- modified the test methods for "corrosion resistance of hardware accessories";
- modified "hard case rolling impact performance of superior product" to "roller impact performance" and modified the test methods for "roller impact performance";
- deleted the requirements and test methods for "zipper flat pull";
- added the measurement method of "volume";
- modified the specifications of "marks", modified the content of "marks" from Clause 4 to Clause 7.

This Standard was proposed by China Light Industry Federation.

Travelling case and trolley bag

1 Scope

This Standard specifies the product classification, requirements, test method, inspection rules, marks, packaging, transport and storage for travelling case (hard case, soft case) and trolley bag.

This Standard is applicable to travelling case and trolley bag with carrying clothes, with walking wheels and pull rods.

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 231.1, *Metallic materials - Brinell hardness test - Part 1: Test method*

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

GB/T 3920, *Textiles - Tests for color fastness - Color fastness to rubbing*

GB/T 17592, *Textiles - Determination of the banned azo colorants*

GB 19340, *Adhesives for footwear and case and bag*

GB/T 19941, *Leather and fur - Chemical tests - Determination of formaldehyde content*

GB/T 19942, *Leather and fur - Chemical tests - Determination of banned azo colorants*

GB 20400, *Leather and fur - Limit of harmful matter*

GB 21550, *The restriction of hazardous materials in polyvinyl chloride artificial leather*

GB/T 22889, *Leather - Physical and mechanical tests - Determination of top layer coating thickness*

QB/T 1586.1, *Hardware fitting of case and bag - Case - lock*

QB/T 1586.2, *Hardware fitting of case and bag - Case travelling wheel*

QB/T 1586.3, *Hardware fitting of case and bag - Case - handle*

QB/T 1586.5, *Hardware fitting of case and bag - Draw rod*

QB/T 2002.1, *Technical Conditions of Electroplated Layer of Leather Hardware Fittings*

QB/T 2002.2, *Technical Conditions of Top layer Spray Painting of Leather Hardware Fittings*

QB/T 2171, *Metal Zippers*

QB/T 2172, *Plastic Injection Zippers*

QB/T 2173, *Nylon Zipper*

QB/T 2537, *Leather - Tests for color fastness - Color fastness to cycles of to-and-fro rubbing*

QB/T 2918, *Case and bag - Test method for impact resistance by means of falling weight*

QB/T 2919, *Case and bag - Test method for resistance to fatigue of pull rod*

QB/T 2920, *Case and bag - Test method for traveling*

QB/T 2921, *Case and bag - Test method for fall down*

QB/T 2922, *Case and bag - Test method for fall down*

QB/T 3826, *Corrosion-resistant testing method of the metal deposits and conversion coatings for the light industrial products - Neutral salt spraying test (NSS)*

QB/T 4116, *Case and bag - Test method for rotary drum*

QB/T 5083-2017, *Case and bag - Determination of capacity rate*

3 Product classification

3.1 Classification according to variety:

- travelling hard case;
- travelling soft case;
- trolley bag.

4.2.3 Walking wheels

In accordance with QB/T 1586.2.

4.2.4 Carrying handle

In accordance with QB/T 1586.3.

4.2.5 Pull rod

In accordance with QB/T 1586.5.

4.2.6 Hardware accessories

In accordance with QB/T 2002.1, QB/T 2002.2.

4.2.7 Zipper

In accordance with QB/T 2171, QB/T 2172, QB/T 2173.

4.3 Appearance quality

4.3.1 Case body (bag body)

The body is straight and the teeth are straight; the erect is stable, there is no unevenness, or skewness.

4.3.2 Case top layer (bag top layer)

4.3.2.1 Soft case, trolley bag

The color of the top layer material is commensurate, the stitching area has no obvious wrinkles, bow wrinkles, and the whole is neat and smudge-free. Leather, recycled leather top layer material has no obvious disability, no cracking surface, cracking. Artificial leather/synthetic leather top layer material has no obvious embossing, marking. The main parts of the fabric top layer are free of warp, weft breaking, yarn jumping, splitting and other defects. Minor parts can also have a slight 2 defects.

4.3.2.2 Hard case

The case surface has no defects such as unevenness, cracks, deformation, burns, scratches, etc. The overall is neat, no stains.

4.3.3 Case mouth

In close cooperation. The gap between the bottom of the mouthpiece and the cover is not more than 2mm, and the gap of the joint box is not more than 3mm. The case mouth and the case are assembled tightly, regularly. There shall be

According to the load specified in Table 5, the load is evenly placed in the case (bag). Test the carrying handle, pull rod and strap in the order of QB/T 2922. The numbers of oscillation impact are as follows:

- carrying handle: 400 times for soft case carrying handle, 300 for hard case carrying handle, 300 for side carrying handle, 250 for trolley bag carrying handle;
- pull rod: when specification of travelling case is ≤ 610 mm, 500 times for pull rod; when specification of travelling case is > 610 mm, 300 times for pull rod, 300 for trolley bag pull rod; when testing pull rod, use the suction cup (not releasing), move up and down at a constant speed;
- strap: 250 times for single strap, 400 times for double straps; when testing strap, it shall adjust the strap to the maximum length.

5.5.5 Drop performance

Testing according to QB/T 2921. Adjust the height of the release table to 900mm from the impact plane at the bottom of the sample:

- travelling case: drop the plane equipped with carrying handle, side carrying handle once, respectively;
- trolley bag: drop the plane equipped with pull rod, walking wheel once, respectively (once horizontally and vertically, respectively).

5.5.6 Static pressure resistance of hard case body

Lay the empty hard case flat, 20 mm from case surface testing area to each side of case surface. Uniformly apply the load to the specified load (making the entire box evenly stressed). The hard case with specification of 535mm ~ 660mm carries a load of (40.0 ± 0.5) kg. The hard case with specification of 685mm ~ 835mm carries a load of (60.0 ± 0.5) kg. Perform continuous compression for 4 h.

5.5.7 Dropping ball impact resistance of plastic hard case surface

Carry out the inspection according to QB/T 2918. Use (4000 ± 10) g of metal hammer.

5.5.8 Roller impact performance

Carry out the inspection according to QB/T 4116. Metal drum shall not be fitted with a cone. Place the sample at room temperature for more than 1 h and place it directly into the drum for 20 turns (not for metal hard case).

5.5.9 Durability of case and bag locks

batch of products shall be qualified. If one (or more) fails, double the sample for re-inspection. If all the re-inspections are qualified, the batch of products shall be qualified.

7 Marks, packaging, transport and storage

7.1 Marks

7.1.1 Products that pass the inspection shall have the following marks:

- name (manufacturer or distributor), address, contact number;
- if necessary, the product shall be attached (maintenance) instructions;
- when necessary, the product packaging shall include the product name, item number, quantity, storage and transport (protection) logo, etc.

7.1.2 Product label shall meet the following requirements:

- shall label with: product name, product standard number, trademark, article number (model), body material, qualified (inspection) logo;
- when a certain type of surface material used in a single product exceeds 20% of the total area of the surface material used in the product, it shall be noted;
- when more than 90% of the top layer material is used in the top layer leather (except the head layer transfer film leather), it is allowed to be marked as "leather";
- if the main surface layer material is made of split leather, it shall be marked with the layered "typeface";
- when the coating thickness or film thickness of the leather substrate is greater than the thickness of the leather substrate, it is not appropriate to label "leather" separately, which can be labeled as "composite material";
- imported products shall be marked with origin.

7.2 Packaging

The inner and outer packaging of the product shall be made of suitable packaging materials to prevent damage during transport and storage.

7.3 Transport and storage

In accordance with the followings:

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