

HOOKAY OFFICE FURNITURE CO.,LTD
NO. 130, SANXIN ROAD, SANJIAO TOWN, ZHONGSHAN CITY, GUANGDONG, CHINA

Sample Description : STUDY CHAIR
Item No. : FREEDOM STUDY CHAIR

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Nov 03, 2023
Sample 1st Resubmission Date : Dec 15, 2023
Sample 2nd Resubmission Date : Dec 20, 2023
Test Performing Date : Nov 03, 2023 to Dec 26, 2023
Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	EN 17191:2021 (Level 2), excluding clause 11	PASS	/
For further details, please refer to the following page(s)			

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Marco Leung
Authorized Signatory



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TESTS AND RESULTS

Test Conducted:

EN 17191:2021 Children's Furniture - Seating for children – Safety requirements and test methods, excluding clause 11.

Seating sizes:

- Size 1 seating:** Seat height $H \leq 270$ mm
- Size 2 seating:** Seat height $270 \text{ mm} < H \leq 360$ mm
- Size 3 seating:** Seat height $H > 360$ mm

Test level: Level 2.

No. of Sample:

1 piece (Sample #1). For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results
6 General safety requirements	
6.1 Hazards from glass (see B.4) There shall be no glass in seating for children.	PASS
6.2 Surfaces, edges, corners and points All parts shall be designed so that physical injury and damage are avoided. This requirement is fulfilled when: <ul style="list-style-type: none"> - the edges of the seat, back rest and arm rests, which are in contact with the child when sitting in the seating, are rounded or chamfered; - the edges of handles are rounded in the direction of the force applied; - all other accessible edges and corners are smooth, rounded or chamfered and with no burrs; - there is no pointed or protruding surface that constitutes a puncture hazard; - rough surfaces shall not cause injury during use. 	PASS
6.3 Entrapment hazards (see B.5)	
6.3.1 Finger entrapment hazards	
6.3.1.1 Requirements When tested in accordance with 6.3.1.2, there shall be no completely bound openings in rigid materials that let the 7 mm probe (see 5.1.1) enter unless the depth of penetration is less than 10 mm or unless the shape assessment probe (see 5.1.3) enters. When measured in accordance with 6.3.1.2, it shall not be possible for the 7 mm finger probe for mesh (see 5.1.2) to penetrate the holes of the mesh to the 7 mm diameter section.	PASS
6.3.2 Partially bound, V and irregular shaped openings	
6.3.2.1 Requirements The following requirements apply to size 1 seating only. Partially bound and V shaped openings with a lower edge ≥ 600 mm above the ground shall be constructed so that, when tested in accordance with 6.3.2.2, either: a) portion B of the V and irregular shaped openings template (5.2) does not enter the opening; or b) the apex of portion A of the V and irregular shaped openings template (5.2) makes contact with the base of the opening.	N/A



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Test and Requirements	Test Results
6.4 Hazards caused by folding of the seating	
6.4.1 Requirements	
6.4.1.1 General	
<p>The requirements in 6.4.1.2 and 6.4.1.3 do not apply to deckchairs (see 3.4). There shall be at least one locking mechanism (see 3.6), which prevents a foldable seating from folding when in use.</p>	
<p>6.4.1.2 Incomplete deployment during the setting up In order to prevent hazards due to incomplete deployment, the foldable seating shall fulfil one of the following requirements: a) the weight of the child in the foldable seating shall act to prevent folding; or b) at least one <i>locking device</i> (3.5) shall engage automatically when the foldable seating is ready for use.</p>	N/A
<p>6.4.1.3 Unintentional folding of the seating Unintentional folding of the foldable seating shall be prevented. This requirement is fulfilled if one of the following conditions is met: a) at least one <i>operating device</i> (see 3.8) requires a minimum force of 50 N to activate and a maximum force of 300 N, before and after all <i>locking mechanisms</i> (see 3.6) have been operated 300 times; or b) folding is only possible if at least one <i>locking mechanism</i> (see 3.6) requires the use of a tool; or c) folding is only possible when two independent <i>operating devices</i> (see 3.8) are operated simultaneously; or d) there are two or more <i>automatic locking devices</i> (see 3.7) that cannot both be released by one single action; or e) folding of the foldable seating requires two consecutive actions, the first of which shall be maintained while the second is carried out.</p>	N/A
6.4.2 Automatic locking devices	
<p>6.4.2.1 Requirement When tested in accordance with 6.4.2.2 automatic locking devices (see 3.7) shall not release or open.</p>	N/A
6.5 Hazards caused by deckchairs (see B.14)	
6.5.1 General	
<p>All deckchairs (see 3.4 and Figure 13), regardless of size, shall be fitted with a locking device (see 3.5) that fulfils the requirements of 6.5.2.</p>	
6.5.2 Requirements	
<p>During the tests, the transverse bar is allowed to disengage from its initial locking position. At the end of each test (not only those specified in 6.5.3):</p>	
<ul style="list-style-type: none"> - the transverse bar shall be correctly engaged in any locking position; - if during testing according to 6.5.3.1 the deckchair lifts without disengagement of the transverse bar from its locked position before the 450N force is reached the requirement is considered as to be met; - there shall be no fracture of any component or any joint; - there shall be no loosening of any assembly intended to be rigid; - there shall be no loss of function of the seating or any component. 	N/A
6.6 Hazard from moving parts (see B.6)	



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Test and Requirements	Test Results
<p>6.6.1 Shearing and compression hazards when setting up and folding Unless 6.6.2 or 6.6.3 is applicable, shearing and compression hazards that are created only during erecting, adjusting or folding away the seating are acceptable because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.</p>	<p>N/A</p>
<p>6.6.2 Shearing and compression points under influence of powered mechanism To avoid shearing and compression points created under the influence of a powered mechanism, the minimum clearance between parts moving relative to each other shall be 25 mm during all movements unless the clearance between the parts is always less than 5 mm.</p>	<p>PASS</p>
<p>6.6.3 Shearing and compression points during use clearance between parts moving relative to each other shall be: a) 12 mm for size 1 seating, unless the clearance between the parts is always less than 5 mm; and b) 18 mm for sizes 2 and 3 seating, unless the clearance between the parts is always less than 5 mm. For size 1 and 2, the forces applied during the static tests shall be used to assess the requirements. For size 3, the forces applied during the durability tests shall be used to assess the requirements.</p>	<p>PASS</p>



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Test and Requirements	Test Results
<p>6.7 Hazards from enclosure (see B.7) Seating which a child can enter shall conform to the following requirements:</p> <p>a) any seating having a door, lid or similar device which encloses a continuous volume greater than 0,03 m3 and in which all internal dimensions are 150 mm or more shall provide at least two unobstructed ventilation holes, each 650 mm² or more, situated at least 150 mm apart. The total ventilation area shall be provided when the seating is placed on the floor in any position and adjacent to two vertical plane surfaces meeting at a 90° angle so as to simulate the corner of a room. The ventilation area is not required if the continuous volume is effectively sub-divided into compartment(s) by a permanent partition(s) or one or more bars making at least one dimension in the compartment less than 150 mm;</p> <p>b) for seating having a door, lid or similar device, it shall be possible to open the door, lid or similar device by applying a force of 50 N or less from the inside;</p> <p><i>NOTE This requirement precludes the use of buttons, zips and similar fastenings on doors, lids or similar devices.</i></p> <p>c) seating chests with vertically opening hinged lids shall be provided with a lid-support mechanism to prevent sudden collapse or dropping of the lid. The lid-support mechanism shall support the lid so that at no position in the arc of travel of the lid from within 50 mm of the fully closed position through an arc not to exceed 60° from the fully closed position shall it drop more than 12 mm under the influence of its own mass, except in the last 50 mm of travel. The test shall be performed according to EN 71-1:2014+A1:2018, 8.31.2 (lid support).</p> <p>The lid-support mechanism shall conform to this requirement before and after being subjected to 7 000 opening and closing cycles, as described in EN 71-1:2014+A1:2018, 8.31.3 (durability test for vertically opening hinged lids).</p> <p>The lid-support mechanism shall not require adjustment by the consumer to ensure adequate lid support, nor shall it require adjustment in order to conform to the above requirement after being cycled according to EN 71-1:2014+A1:2018, 8.31.3 (durability test for vertically opening hinged lids).</p> <p>The lid and lid-support mechanism shall conform to the requirements in EN 71-1:2014+A1:2018, 4.10.3 (hinges).</p> <p>Seating chests with vertically opening hinged lids shall be accompanied by instructions for proper assembly and maintenance, if applicable.</p>	<p>N/A</p>
<p>6.8 Entanglement hazards (see B.8) The following requirements apply to size 1 seating only. Cords, ribbons and similar parts shall have a maximum free length of 220 mm when a 25 N tensile force is applied. Where cords, ribbons and similar parts are attached to the seating together or within 80 mm of each other, any single cord shall have a maximum free length of 220 mm and the combined length from one loose end to the other shall be maximum 360 mm. Loops shall have a maximum peripheral dimension of 360 mm when a 25 N tensile force is applied. When the seating is equipped with a restraint system to fulfil another function, the restraint system shall be capable of being removed, hidden or covered in accordance with the manufacturer's instructions.</p>	<p>N/A</p>
<p>6.9 Choking and ingestion hazards (see B.9)</p>	



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Test and Requirements	Test Results
<p>6.9.1 Requirements The following requirements apply to size 1 seating and soft seating (see 3.9) only. The following requirements do not apply to paper. When tested in accordance with 6.9.2, any component or part of a component, including labels and decals, that can be removed shall not fit entirely within the small parts cylinder (see 5.3).</p>	<p>N/A</p>
<p>6.9.3 Filling material</p> <p>6.9.3.1 Requirements The following requirements apply to size 1 seating and all sizes of soft seating (3.9) only. When tested in accordance with 6.9.3.3 no upholstery filling material (for example fibre, foam, granules) shall be accessible from any upholstered seating. When tested in accordance with 6.9.3.3.2.2, the force of rupture shall be greater than 60 N. When tested in accordance with 6.9.3.3.2.1, slippage of threads of seating cover for woven fabrics, the maximum slippage of thread shall be 7 mm. When tested in accordance with 6.9.3.3.2.3, slide fasteners (zip), any slide fastener (zip) shall not open. When tested in accordance with 6.9.3.3.3, it shall not be possible to insert the front part of a 12 mm diameter probe (5.1.1) into any opening in the seam or cover material by more than 6 mm.</p>	<p>N/A</p>
<p>6.9.3.2 Removable seating covers The following requirements apply to size 1 seating and all sizes of soft seating (3.9) only. The means to close/attach removable covers shall not allow a child to have access to filling materials. This requirement is met if one of the following conditions is fulfilled:</p> <ul style="list-style-type: none"> - a minimum force of 50 N is required to open the closing system; or - two actions (e.g. push and twist) are necessary to open the closing system, the first of which shall be maintained while the second is carried out; or - two independent actions are necessary to open the closing system that shall be operated simultaneously; or - the use of a tool is required to open the closing system; or - a non-removable inner cover is provided to avoid accessibility to the filling material. 	<p>N/A</p>
<p>6.9.4 Magnets If magnets are provided with the seating, they shall fulfil the requirements of EN 71-1:2014+A1:2018, 4.23.2.</p>	<p>N/A</p>



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Test and Requirements	Test Results
<p>6.10 Suffocation hazards (see B.10) Plastic sheeting used for packaging with an area greater than 100 mm x 100 mm shall conform to one of the following requirements: a) have an average sheet thickness of 0,038 mm or more; or b) be perforated with defined holes so that a minimum of 1 % of the area has been removed over any area of 30 mm x 30 mm. Plastic bags used for packaging with an opening perimeter greater than 360 mm shall not have a drawstring or cord as a means of closing. Shrink packaging that is destroyed, when the packaging is opened by the user, is excluded from these requirements. Any plastic covering used for packaging, with the exclusion of shrink packaging, having an opening perimeter greater than 360 mm shall be marked with the word "WARNING" followed by the statement "Keep plastic covering away from children to avoid suffocation". This statement may be expressed in different words providing they clearly convey the same message. The text shall be accompanied by the symbol of the warning triangle . </p>	<p>N/A</p>
<p>7 Chemicals requirements (see B.11) The following requirements apply to size 1 seating only. Verification shall be provided that the migration of heavy metals in the surfaces of any material used that are accessible to the mouth of the child fulfil the requirements of EN 71-3:2019+A1:2021.</p>	<p>PASS See test result 2</p>
<p>8 Fire and thermal hazards (see B.12) Verification shall be provided that all accessible textile materials do not produce surface flash when tested according to EN 71-2:2020, 5.5.1 and 5.5.2.</p>	<p>PASS See test result 1</p>
<p>9 Strength and durability requirements (see B.13) Strength and durability(With reference to the test methods of EN 1728:2012/AC:2013 D/E/F) Soft seating shall only be tested to test level 2 in accordance with Table 3 tests 6 and 11. Test 6 shall be carried out on the seat only. Sizes 1 and 2 seating shall be tested according to test level 1 specified in Table 3. Size 3 seating shall be tested according to test level 2 specified in Table 3. After testing in accordance with 9.4, the following requirements shall be fulfilled: a) there shall be no fracture of any member, joint or component, including seat suspensions and castors; b) there shall be no loosening of joints intended to be rigid; c) there shall be no deformation that will adversely affect the safety of any part of the seating; d) there shall be no impairment of the operation of any mechanical part.</p>	
<p>EN 1728:2012, 6.4 Seat static load and back static load test Seat force, 1000 N Back force, 250 N Min back force, 200 N Cycles, 10</p>	<p>PASS</p>
<p>EN 1728:2012, 6.5 Seat Front Edge Static Load Force, 1000 N Cycles, 10</p>	<p>PASS</p>
<p>EN 1728:2012, 6.8 Footrest static load test Force, 1000 N Cycles, 10</p>	<p>N/A</p>
<p>EN 1728:2012, 6.11 Arm rest downwards static load test Force, 350 N Cycles, 10</p>	<p>PASS</p>



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Test and Requirements	Test Results
EN 1728:2012, 6.17 Combined seat and back durability test Seat force, 750 N Back force, 250 N Cycles, 10000	PASS
EN 1728:2012, 6.18 Seat front edge durability test Force, 750 N Cycles, 5000	PASS
EN 1728:2102, 6.20 Arm rest durability test Force, 200 N Cycles, 5000	PASS
EN 1728:2102, 6.15 Leg forward static load test Force, 300 N Min force, 150 N Seat load, 750 N Cycles, 10	N/A
EN 1728:2012, 6.16 Leg sideways static load test Force, 250 N Min force, 150 N Seat load, 750 N Cycles, 10	N/A
EN 1728:2012, 6.24 Seat impact test Drop height, 140 mm Cycles, 10	PASS
EN 1728:2102, 6.25 Back impact test Height of fall, 120 mm Cycles, 10	PASS
10 Stability requirements The following tests and requirements do not apply to soft seating. The stability requirements are fulfilled when, during testing in accordance with 10.1 and 10.2, the seating does not overturn.	
EN 1022: 2018, 7.3.1 Forwards overbalancing, all seating Seat force, 500 N Horizontal force, 20 N	PASS
EN 1022: 2018, 7.3.2 Forwards overturning for seating with footrest. Force, 500 N Horizontal force, 20 N	N/A
EN 1022: 2018, 7.3.3 Corner stability test Seat force, 250 N	PASS
EN 1022: 2018, 7.3.4 Sideways overbalancing, all seating without arms Seat force, 500 N Horizontal force, 20 N	N/A
EN 1022: 2018, 7.3.5.2 Seating with arm rests Arm force, 300 N Seat force, 210 N Horizontal force, 20 N	PASS
EN 1022: 2018 7.3.6 Rearwards overturning all seating with back rests Seat force, 500 N Back force, 130 N	PASS
10.2 Alternative rearwards stability tests for rocking and reclining chairs	



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Test and Requirements	Test Results
<p>10.2.1 Rocking chairs This test replaces the rearwards stability test specified in Table 4. Rocking chairs shall be tested in accordance with EN 1022:2018, 7.4.5, with the following test loads: Size 1 seating Load the seating with the test mass, resting against the backrest. Size 2 seating Load the seating with three loading discs as specified in EN 1022:2018, 5.7. Size 3 seating Load the seating with six loading discs as specified in EN 1022:2018, 5.7.</p>	<p>N/A</p>
<p>10.2.2 Reclining chairs Reclining chairs shall be tested in accordance with EN 1022:2018, 7.4, using the following test loads: Size 1 seating Load the seating with the test mass, resting against the backrest. Sizes 2 and 3 seating Load the seating with two loading discs on the seat and four loading discs on the back as specified in EN 1022:2018, 5.7.</p>	<p>N/A</p>
<p>11 Product information</p>	
<p>11.1 General Product information shall be provided in the official language(s) of the country in which the seating is sold.</p>	<p>N/R</p>
<p>11.2 Marking</p>	
<p>11.2.1 Requirements Seating which fulfils the requirements of this document shall be permanently marked with the following: — the name or trade mark of the manufacturer or importer. Marking shall be conspicuous, durable and legible and any labels shall be securely attached.</p>	<p>N/R</p>
<p>11.2.2 Durability of marking</p>	
<p>11.2.2.1 Requirement After testing in accordance with 11.2.2.2 no label and/or marking shall be removed and markings shall remain legible</p>	<p>N/R</p>
<p>11.3 Purchase information Size 1 tall chairs, which do not fulfil the requirements of EN 14988:2017+A1:2020, shall include a statement or symbol pointing out that the seating is not suitable for children under 3 years old. NOTE If the seating is sold through the internet, the point of sale is the web page where the seating is sold.</p>	<p>N/R</p>
<p>11.4 Instructions for use</p>	
<p>11.4.1 General Instructions for the safe use of the seating shall be provided and shall be headed "IMPORTANT! READ CAREFULLY AND KEEP FOR FUTURE REFERENCE" in letters not less than 5 mm high.</p>	<p>N/R</p>



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Test and Requirements	Test Results
<p>11.4.2 Warnings The instructions shall contain: The word "WARNING" written in upper case, followed by the following statements:</p> <ul style="list-style-type: none"> - "DO NOT place this product near a window as it can be used as a step by the child and cause the child to fall out of the window"; - "Be aware of the risk of open fires and other sources of strong heat in the vicinity of the product"; - "DO NOT place this product near a window where cords from blinds or curtains could strangle a child". <p>These statements may be expressed in different words providing they clearly convey the same message</p>	N/R
<p>11.4.3 Additional information The instructions shall contain the following additional information:</p> <ul style="list-style-type: none"> a) number and date of this document; b) the name or trade mark of the manufacturer or importer and the respective European address, including the webpage if appropriate; c) means of identifying the seating e.g. model number; d) the age of the child for which the seating is intended; e) if applicable an assembly drawing, list and description of parts and tools required for assembly and a diagram of the bolts and other fastenings required; f) if applicable, a statement that all assembly fittings should always be tightened properly; g) a statement not to use the seating if any part is broken, torn or missing and use only spare parts approved by the manufacturer; h) if applicable, cleaning and maintenance recommendations; i) if the seating is equipped with a restraint system, a statement that the restraint system shall be removed/hidden/covered (as applicable) when the product is used as a seating. 	N/R

Remark:

1. Size 3 seating and test level 2 are specified by applicant;
2. The stability tests are carried out before and after the strength and durability tests;
3. N/A – Not applicable; N/R – Not requested.



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Test results 1 (SGS Ref No.: SDFS2311006594FF)

Test Conducted:

EN 17191:2021 Children's Furniture - Seating for children – Safety requirements and test methods
 Clause 8 Fire and thermal hazards

Verification shall be provided that all accessible textile materials do not produce surface flash when tested according to EN 71-2:2020, 5.5.1 and 5.5.2.

I. Sample Details:

Sample No.	Materials	Mass per unit area
1	Plain Surface Fabric	349 g/m ²

II. Test Results:

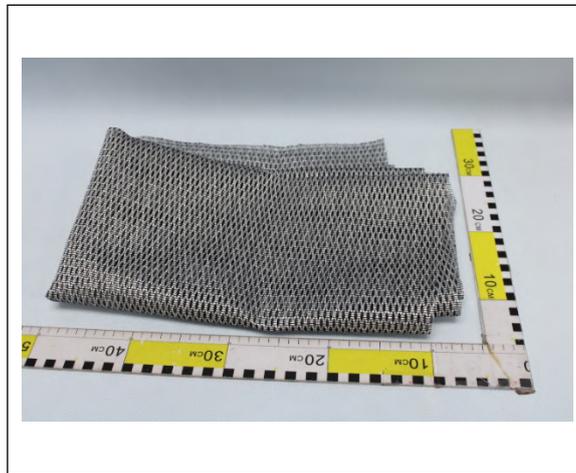
Sample No.	Surface Flash or Not
1	No surface flash

III. Test Conclusion:

Requirement	Conclusion (PASS/FAIL)
EN 17191:2021 Clause 8 Fire and thermal hazards Verification shall be provided that all accessible textile materials do not produce surface flash when tested according to EN 71-2:2020, 5.5.1 and 5.5.2.	PASS

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Photo Appendix:



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Test results 2 (SGS Ref No.: CAN23-0144433)

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0144433-0001.C001	Gray plastic
SN2	A2	CAN23-0144433-0001.C002	Gray surfaced foam
SN3	A3	CAN23-0144433-0001.C003	White fabric with black material

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

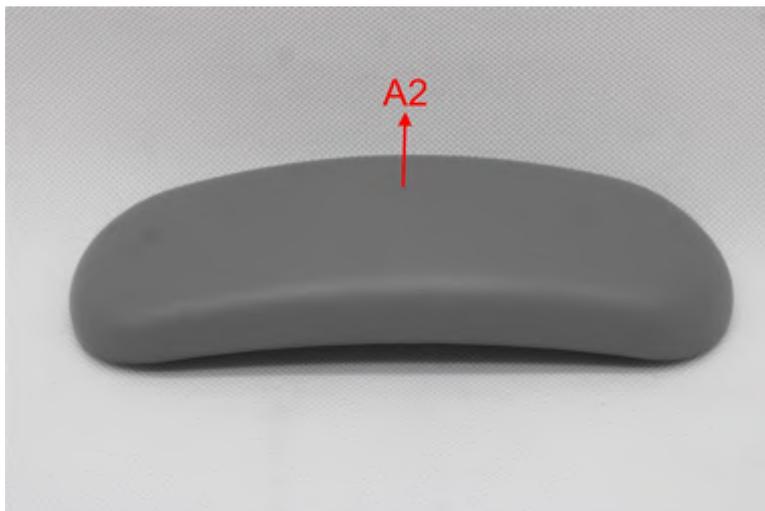
Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.



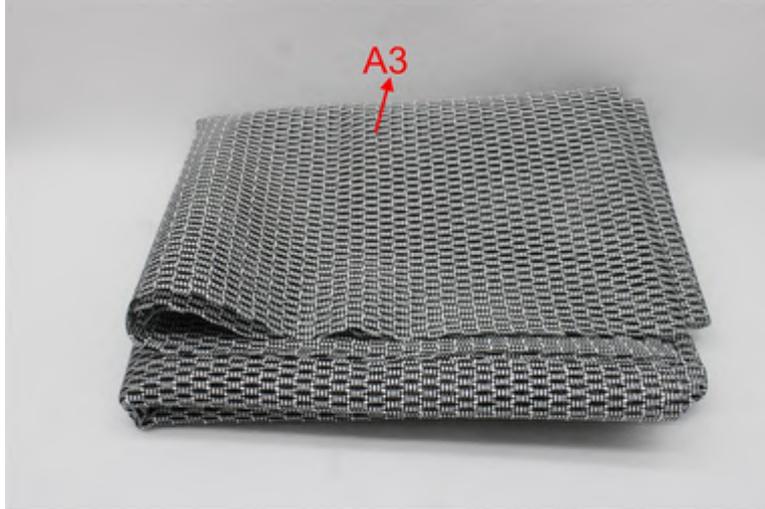
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Sample Photo:



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Remark: Test result 2 was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.



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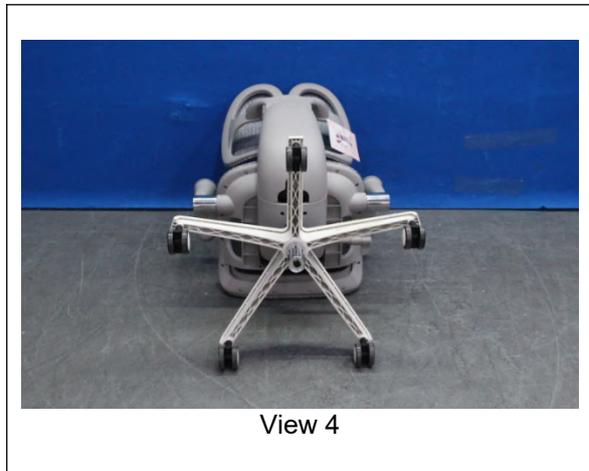
SAMPLE INFORMATION AND PICTURES

Weight: 14.60 kg

Overall Dimensions: 610 mm D x (605~780) mm W x (855~970) mm H

Other Dimensions: /

Sample as Received



Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.

End of Report



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