

GUANGZHOU CITY DALANG SEAT CO., LTD  
 NO. 1, EAST LONGHE ROAD, YONGXING, TAIHE TOWN, BAIYUN DISTRICT, GUANGZHOU

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : CHAIR  
 Supplier Item No. : AD12XL, AD3, AD4, AD5, AD4XL, AD7, AD8, AD12, AD17, AD18, AD19  
 Buyer Item No. : AD12XL, AD3, AD4, AD5, AD4XL, AD7, AD8, AD12, AD17, AD18, AD19  
 Manufacturer : GUANGZHOU CITY DALANG SEAT CO., LTD  
 Sample Receiving Date : Jun.29, 2019  
 Test Performing Date : Jul.01, 2019 to Jul.10, 2019

### Test Result Summary

Test(s) Requested	Result(s)
EN 12520:2015 excluding tilting chairs and information for use	PASS

#### Summary:

- For further details, please refer to the following page(s).

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



Bill Wang  
 Approved signatory



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TESTS AND RESULTS

**Test Conducted:**

EN 12520:2015 Furniture — Strength, durability and safety -- Requirements for domestic seating excluding tilting chairs and information for use.

**No. of Sample:**

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

Test and Requirements	Test Results
<b>5 Constructional requirements</b>	
<p><b>5.1 General requirements</b></p> <ul style="list-style-type: none"> <li>- Edges of the seat, back rest and arm rests, which are in contact with the user when sitting are rounded or chamfered. All other edges accessible during use shall be free from burrs and/or sharp edges;</li> <li>- Ends of hollow components are closed or capped.</li> <li>- Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.</li> <li>- It shall not be possible for any load bearing part of the seating to come loose unintentionally.</li> <li>- All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.</li> </ul>	PASS
<b>5.2 Shear and squeeze points</b>	
<p><b>5.2.1 Shear and squeeze points when setting up and folding</b></p> <p>Unless 5.2.2 or 5.2.3 are applicable, shear and squeeze points, that are created only during setting up and folding, including tipping seat, 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 upon experiencing pain. The edges of parts moving relative to each other and creating shear and squeeze points shall be as specified in 5.1.</p>	PASS
<p><b>5.2.2 Shear and squeeze points under the influence of powered mechanisms</b></p> <p>With the exception of tipping seats there shall be no shear and squeeze points created by parts of the seating under powered mechanisms, e.g. springs and gas lifts. <i>NOTE Electrically operated seating is covered by EEC Directives for EMC, Machinery, Low Voltage or Medical Devices.</i></p>	N/A
<p><b>5.2.3 Shear and squeeze points during use</b></p> <p>There shall be no shear and squeeze points created by loads applied during normal use. The loads applied during normal use can be found in Table 1. Shear and squeeze points are not acceptable if a hazard is created by the weight of the user during normal movements and actions, e.g. attempting to move the seating by lifting the seat or by adjusting the backrest. <i>NOTE This hazard is best prevented by the use of automatic locking mechanisms.</i></p>	PASS
<b>5.3 Stability (With reference to BS EN 1022:2018).</b>	
The seating shall not overturn when tested as below.	



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Test and Requirements	Test Results
<p><b>BS EN 1022: 2018, 7.3.1 Forwards overbalancing, all seating</b></p> <p>Position the seating on the floor surface with two adjacent supporting points on the front or base restrained by stops.</p> <p>Apply a force of 600 N vertically (for multiple sitting places to a maximum of 2 places, simultaneously) by means of the loading pad acting at those points 60 mm behind the front edge of the load bearing structure most likely to result in overturning.</p> <p>At each loaded position apply a force of 20 N for at least 5 s horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the seat.</p> <p>For items of seating with a leg rest attached to the structure of the item, and where the leg rest is designed to support the weight of the user, the test procedure shall be repeated with the leg rest fully extended and the force of 600 N vertically by means of the loading pad acting at the point on the centre line of the leg rest 60 mm behind the front edge of the load bearing structure.</p> <p>For items of seating with a leg rest not designed to support the weight of the user the test is not applicable to the leg rest.</p>	<p>PASS</p>
<p><b>BS EN 1022: 2018, 7.3.2 Forwards overturning for seating with footrest</b></p> <p>For seating with foot rests of tubular construction, or where the foot rest depth is less than 120 mm, repeat the procedure in 7.3.1 applying the vertical force of 1100 N for swivelling seats and 600 N for all other seating respectively at the most onerous point along the centre line of the tube, or the middle of the foot rest surface, by any suitable means.</p> <p>For all other seating with foot rests apply the vertical force of 600 N at the most onerous point 60 mm from the edge of the foot rest by means of the local loading pad.</p> <p>For foot rests apply a force of 20 N horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the foot rest.</p>	<p>N/A</p>
<p><b>BS EN 1022: 2018, 7.3.3 Corner stability test</b></p> <p>This test is only applicable on seating where it is possible to apply the stability loading pad at the specified position. Where features such as arms prevent the loading pad from being applied at the specified position, the test is not applicable.</p> <p>Position the seating on the floor surface with two adjacent supporting points on the front, or base restrained by stops.</p> <p>The loading point shall be defined as the point 60 mm from the edge of the load bearing structure on a line that passes through the seat loading point and the intersection of lines parallel to the transverse and median planes, projected from the most forward point of the load bearing structure and the side edges of the load bearing structure of the seat at the widest point on the seat at, or in front of, the transverse plane.</p> <p>For seating with a single seat apply a force of 300 N vertically by means of the loading pad acting at the loading point X. For seating with multiple seats apply a force of 300 N at the loading point X on one outside seating position.</p>	<p>N/A</p>



Test and Requirements	Test Results
<p><b>BS EN 1022: 2018, 7.3.4 Sideways overbalancing, all seating without arms</b>            This test is applicable to all seating where the top edge of the seat on the transverse plane is 50 mm or less above the height of the loaded seat loading point. The transverse plane shall pass through the seat loading point.            Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops.            Apply a force of 600 N vertically by means of the loading pad at a point 60 mm behind the edge of the load bearing structure on the side nearest the stopped feet and on the transverse plane of the seat.            In the transverse plane, apply a sideways force of 20 N horizontally outwards along a line from the point where the base of the loading pad meets the upper surface of the seat.</p>	<p>N/A</p>
<p><b>BS EN 1022: 2018, 7.3.5 Sideways overturning, all other seating</b>  <b>7.3.5.1 General</b>            This test is applicable to all seating with arms, or where the top edge of the seat on the transverse plane is more than 50 mm above the height of the seat loading point (A).</p>	
<p><b>BS EN 1022: 2018, 7.3.5.2 Seating with arm rests</b>            Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops.            Apply a force of 250 N vertically by means of any suitable device, at a point 100 mm to the side of the fore and aft centre line of the seat which is nearest the stopped feet and on the transverse plane.            Apply a force of 350 N vertically by any suitable device, at a position on the centre line of the arm up to a maximum 40 mm inwards from the outside edge of the arm structure at the intersection of the arm rest and the transverse plane, but not less than 40 mm from the front or rear edge of the arm structure.            If the transverse plane does not intersect with the arm rest, apply the force of 350 N 40 mm from the point at the front or rear of the arm rest structure that is nearest the transverse plane.            Apply a horizontal force of 20 N outwards, and perpendicular to the line joining the stopped feet, for at least 5s, at the upper surface of the seat or arm rest in line with the vertical force of 350 N and on the side with stopped feet.</p>	<p>PASS</p>
<p><b>BS EN 1022: 2018, 7.3.5.3 Seating with raised side edges</b>            Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops.            Apply a force of 250 N vertically by any suitable device, at a point 100 mm to the side of the fore and aft centre line of the seat which is nearest the stopped feet and on the transverse plane.            Apply a force of 350 N by any suitable device, at a position no greater than 40 mm inwards from the outside edge of load bearing structure on the side nearest the stopped feet and on the transverse plane of the seat.            If the distance between the loading points is less than 200 mm, a force that provides the same overturning moment of the combined forces, <math>F_1</math> of 250 N and <math>F_2</math> of 350 N, shall be applied at the most suitable point on the transverse plane.            Apply a horizontal force of 20 N outwards, and perpendicular to the line joining the stopped feet, at the upper surface of the raised edge in line with the vertical force 350 N and on the side with stopped feet.</p>	<p>N/A</p>



Test and Requirements	Test Results
<p><b>BS EN 1022: 2018, 7.3.6 Rearwards overturning all seating with back rests</b>                      The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position.                      For seating that has an adjustable back rest inclination that can be locked in position, it shall be locked in the most upright position. When an independent lumbar adjustment is fitted it shall be set in the most adverse configuration.                      Position the seating on the floor surface with the rear legs, two adjacent supporting points on the back, or base restrained by stops.                      Apply a vertical force of 600N to the seat by means of the loading pad at the seat loading point (A).                      Apply the force <math>F_2</math> horizontally in a rearward direction to the back of the seating at the back loading point, B, or at the top edge of the back rest, whichever is the lower.                      When the seating has more than one sitting place, carry out the procedure on two most adverse sitting places simultaneously.                      If the back rest pad is pivoting around a horizontal axis above the height of the seat and is free to move, the horizontal force shall be applied on the axis. If the back rest is height adjustable, the axis shall be set as close as possible to 300 mm above the seat loading point (A).</p>	<p>PASS</p>
<p><b>BS EN 1022: 2018, 7.4 Additional test procedures for seating with reclining back rests</b>  <b>7.4.1 General</b>                      In addition to the tests in 7.3, seating with reclining back rests shall be subjected to the tests for tilting or reclining, as specified below provided their geometry falls within the reclining angle ranges defined for the appropriate tests.                      Seating with back rests permanently reclined which fall within the reclining angle ranges for reclining chairs, shall be tested as reclining chairs.                      The test shall be carried out with the seating in the fully tilted or reclined condition.  <math>\gamma</math> is the angle between the seat and back.  <math>\theta</math> is the angle of inclination of the back from the horizontal.                      For seating with shaped or padded seats or backs the load position template shall be used to establish the relevant angles of inclination                      If the height of the stack of loading discs used in tests 7.4.2, 7.4.3, 7.4.4 and 7.4.5 exceeds the height of the back rest, prevent the upper discs from sliding off by the use of the support.</p>	
<p><b>BS EN 1022: 2018, 7.4.2 Tilting chairs</b>                      The test method applies to all values of <math>\theta \geq 10^\circ</math> and values of <math>\gamma</math> between <math>90^\circ</math> and <math>170^\circ</math>.                      If the seating has a locking system it shall be disabled.                      Load the seat with the 13 loading discs for swivelling seats and 11 discs for all other seating respectively so that the discs are firmly settled against the back rest. If the height of the stack of discs exceeds the height of the back rest, or if support is needed, prevent the discs from sliding off by the use of the support.</p>	<p>N/R</p>
<p><b>BS EN 1022: 2018, 7.4.3 Reclining seating with leg rest</b>                      The test method applies to all values of <math>\theta \geq 10^\circ</math> and less than <math>55^\circ</math> and values of <math>\gamma</math> between <math>90^\circ</math> and <math>170^\circ</math>. All other reclining seating with leg rests shall be treated as tilting seating (7.4.2)                      With the seating in the fully reclined configuration, load the back of the seat with 8 loading discs by means of the support device and place 3 loading discs onto the leg rest at a distance Z from the intersection of the seat and back.</p>	<p>N/A</p>



Test and Requirements	Test Results
<p><b>BS EN 1022: 2018, 7.4.4 Reclining seating without leg rest</b>                      The test method applies to all values of <math>\theta \geq 10^\circ</math> and less than <math>45^\circ</math> and values of Y between <math>90^\circ</math> and <math>170^\circ</math>. All other reclining seating without foot rests shall be treated as tilting seating (7.4.2).                      Load the back of the seating with 8 loading discs by means of the support device and place 3 loading discs onto the front of the seat of the chair at a distance X from the intersection of the seat and back.</p>	<p>PASS</p>
<p><b>BS EN 1022: 2018, 7.4.5 Rearwards stability test for rocking chairs</b>                      This test replaces the rearwards overturning test.                      Load the chair with the 8 discs so that the discs rest against the chair back. When testing rocking chairs, it may be necessary to restrain the loading discs with lightweight strapping, e.g. tape, string or webbing.                      Move the chair forwards as far as is practicable or until the back is vertical. Allow the chair to rock rearwards freely under gravity.</p>	<p>N/A</p>
<p><b>5.4 Strength and durability (With reference to the test methods of EN 1728:2012/AC:2013 D/E/F)</b>                      Seating shall be tested for strength and durability according to and in the order as below.                      The strength and durability requirements are fulfilled when during and after testing as below.                      a) there are no fractures of any member, joint or component;                      b) there are no loosening of joints intended to be rigid;                      c) seating fulfils its functions after removal of the test loads;                      d) seating fulfils the stability requirements.</p>	
<p><b>EN 1728, 6.4 Seat and Back Static Load Test</b>                      Apply the downward force <math>F_v</math> at the seat loading position. With the downward force maintained, apply the back force <math>F_H</math> at back loading position. Remove the back load and then the seat load. Seating with a fixed back position, and seating with reclining mechanisms that cannot be locked into a fixed position, shall be tested for the number of 10 cycles; Seating with reclining mechanisms that can be set or locked in a number of positions shall be tested for 5 cycles in the most upright position, and 5 cycles in the most adverse reclined position. The force <math>F_v</math> and <math>F_H</math> are decided by following rules:                      When <math>\theta_{min} \geq 70^\circ</math>, <math>F_v=1300N</math>, <math>F_H= 450N</math>;                      When <math>55^\circ \leq \theta_{min} &lt; 70^\circ</math>,  <math>F_v = 1300N \times \sin\theta_{min}</math>  <math>F_H = (\theta/60^\circ - 0.1666) \times 1300N \times \cos\theta_{min}</math>                      When <math>\theta_{min} &lt; 55^\circ</math>,  <math>F_v = 975N</math>  <math>F_H = 975N \times \cos\theta_{min}</math></p> <p><i>Note: Only the vertical seat static force shall be applied to items without a back rest.                      Minimum back force, 410 N.                      Load applied to seats not being tested, 750 N.</i></p>	<p>PASS</p>



Test and Requirements	Test Results
<p><b>EN 1728, 6.5 Seat front edge static load</b>            Apply the vertical force of 1300N using the seat loading pad at a point on the seat centre line 100 mm inwards from the front edge of the structure.            For multiple seating units, the seat front edge static load test shall be carried out simultaneously on the same seats as used for the seat and back static load test (6.4). During the test, load the seat(s) that are not being tested with the specified seat load for parts not undergoing test, applied at the seat loading position. Repeat above operation for 10 cycles.  <i>Note: Load applied to seats not being tested, 750 N.</i></p>	<p>PASS</p>
<p><b>EN 1728, 6.8 Foot rest static load test</b>            Apply the specified downward force to the seat at the seat loading point.            Apply a vertical force of 1000N by means of the local loading pad (D = 100mm) acting 80 mm from front edge of the load bearing structure of the foot rest at those points most likely to cause failure. For round cross section ring shaped footrests, the force shall be applied through the centre of the ring cross section. Repeat above operation for 10 cycles.  <i>Note: This test is only applicable to seating with a seat height greater than 600 mm. Minimum seat force, 750 N.</i></p>	<p>N/A</p>
<p><b>EN 1728, 6.10 Arm rest sideways static load test</b>            For seating with one arm rest, apply an outward force of 300N to the arm rest at the point along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Apply the force using the local loading pad (D = 100mm). For seating with two arm rests, apply an outward force to each arm rest of the unit simultaneously.            For seating with three or more arm rests, carry out the test on one pair of adjacent arm rests. All different arm rest designs shall be tested.            Repeat above operation for 10 cycles.</p>	<p>PASS</p>
<p><b>EN 1728, 6.11 Arm rest downwards static load test</b>            For seating which only has one arm rest, or which has two arm rests where the distance between the centre of the arm rests is more than 1000 mm, apply the vertical force 700N at the points along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure.            For seating with two arm rests, where the distance between the centre of the arm rests is 1 000 mm or less, apply the vertical force simultaneously to both arm rests.            For seating with three or more arm rests, carry out the test on one pair of adjacent arm rests. All different arm rest designs shall be tested. Repeat above operation for 10 cycles.  <i>Note: Loading pad: D = 200 mm or 100mm.</i></p>	<p>PASS</p>



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Test and Requirements	Test Results
<p><b>EN 1728, 6.17 Combined seat and back durability test</b>            Apply the downward force <math>F_v</math> at the seat loading position. With the downward force maintained, apply the back force <math>F_H</math> at back loading position. Remove the back load and then the seat load. Seating with a fixed back position, and seating with reclining mechanisms that cannot be locked into a fixed position, shall be tested for the number of 25000 cycles; Seating with reclining mechanisms that can be set or locked in a number of positions shall be tested for 12500 cycles in the most upright position, and 12500 cycles in the most adverse reclined position. The force <math>F_v</math> and <math>F_H</math> are decided by following rules:            When <math>\varnothing_{min} \geq 70^\circ</math>, <math>F_v=1000N</math>, <math>F_H= 300N</math>;            When <math>55^\circ \leq \varnothing_{min} &lt; 70^\circ</math>,  <math>F_v = 1000N \times \sin\varnothing_{min}</math>  <math>F_H = (\varnothing/60^\circ - 0.1666) \times 1000N \times \cos\varnothing_{min}</math>            When <math>\varnothing_{min} &lt; 55^\circ</math>,  <math>F_v = 750N</math>  <math>F_H = 750N \times \cos\varnothing_{min}</math>  <i>Note: The minimum back force is the force that just prevents rearward overturning.            Only the vertical seat durability force shall be applied to items without a back rest.            Load applied to seats not being tested, 750 N.</i></p>	<p>PASS</p>
<p><b>EN 1728, 6.18 Seat front edge durability test</b>            Apply the vertical seat durability force <math>F_v = 800N</math> using the smaller seat loading pad (<math>D=100mm</math>) alternately on two points each 80 mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80 mm from the edges. One cycle is one application of the specified force to each load position. For seating where it is not possible to apply the force at two points, the force shall be applied to a single position on the longitudinal axes at a point 80 mm from the front edge of the seat structure. One cycle is two applications of the specified force. Repeat above operation for 20000 cycles.   <i>Note: In derogation of EN 1728:2012 the loading points shall be 80 mm from the relevant edges of the seat.</i></p>	<p>PASS</p>
<p><b>EN 1728, 6.20 Arm rest durability test</b>            The test load of 400 N shall be applied simultaneously on two points for 10000 cycles, at the point most likely to cause failure, but not less than 100 mm from the front or rear edge of the arm rest length and through the centre of the width of the arm rest, but not more than 100 mm from the inner edge of the arm rest.            The force shall be applied at an angle of <math>(10 \pm 1)^\circ</math> to the vertical, and to both arm rests simultaneously for seating with only one seating position and to one arm rest only for seating with multiple seating positions.</p>	<p>PASS</p>
<p><b>EN 1728, 6.15 Leg forward static load test</b>            For seating with a single seat, apply the seat load <math>F_v = 1000 N</math> at the seat loading position. Apply the horizontal force <math>F_H = 400 N</math> (max.) centrally to the rear of the seat, at seat level, in a forward direction, by means of the local loading pad (<math>D=100mm</math>). For seating with multiple seating positions, apply the horizontal force of the most adverse seat position.            For seating with only three legs, one foot on the fore and aft centre line of the item of seating and one other foot shall be restrained by stops.            Repeat above operation for 10 times.</p>	<p>N/A</p>





Test and Requirements	Test Results
<p><b>EN 1728, 6.16 Leg sideways static load test</b> Apply the seat load <math>F_v = 1000\text{ N}</math> at any position not more than 150mm from the unload edge of the seat. Apply a horizontal force <math>F_H = 300\text{ N}</math> (max.) centrally to the unrestrained side of the seat, at seat level, in a direction towards the restrained feet. For seating with only three legs, one foot on the fore and aft centre line of the item of seating and one other foot shall be restrained by stops. Repeat above operation for 10 times.</p>	N/A
<p><b>EN 1728, 6.24 Seat Impact Test</b> Allow the seat impactor to fall freely from the height of 180 mm onto the seat loading position, Repeat the test at one other position considered likely to cause failure, but not less than 100 mm from any edge of the seat. For multiple seating units, apply the test to one end seat and an intermediate seating position. Repeat above operation for 10 times.</p>	PASS
<p><b>EN 1728, 6.28 Backwards Fall Test</b> Place the unloaded seating on the drop test floor in normal use position. Apply a rearward horizontal load to a point 50 mm below the top of the back rest in the centre of the back rest. Measure the force required to lift the front legs off the floor. If the measured force is less than <math>F_H &lt; 30\text{N}</math>, push the top of the back rest rearwards until it reaches the equilibrium point. Allow it to fall freely on its back, onto the rubber faced test floor, without initial force or velocity. Repeat the operation for 5 cycles. <i>Note: This test is only for single seating units where the back will be the first part of the structure to strike the floor and the force used to overturn the chair rearwards is <math>F_H &lt; 30\text{ N}</math>.</i></p>	N/A
<p><b>EN 1728, 6.25 Back Impact Test</b> Prevent the chair from movement by stops against the front leg. Allow the impact hammer (8.5 kg) to fall freely from the height <math>H = 120\text{ mm}</math> or an angle <math>\theta = 28^\circ</math> onto the center of the top outside of the chair back for 10 times. If the item has no back, strike the centre of the seat rear edge. If a stool or bench has no easily determined rear edge, apply the test in the direction most likely to cause failure. <i>Note: This test is for all seating not tested in accordance with Backward fall test (EN 1728, 6.28).</i></p>	PASS
<p><b>6 Information for use</b> Information for use shall be available in the language of the country in which it will be delivered to the end user. It shall contain at least the following details: a) assembly instructions, where applicable; b) instructions for the care and maintenance of the seating; c) if the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.</p>	N/R

**Remark:**

1. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.
2. According to client’s statements, the Supplier / Buyer Item No. as stated on the first page are identical to test sample.
3. For the sample information and pictures, please refer to the following page.



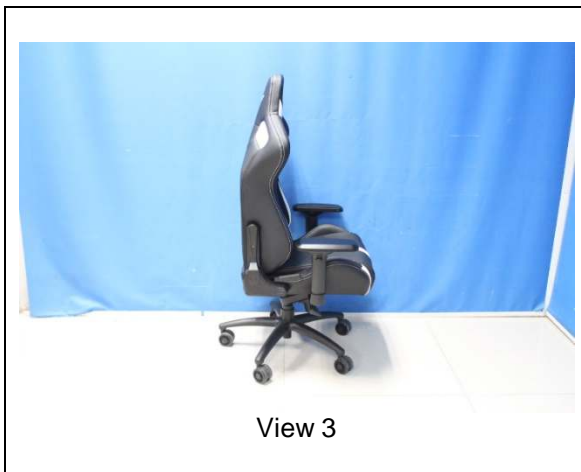
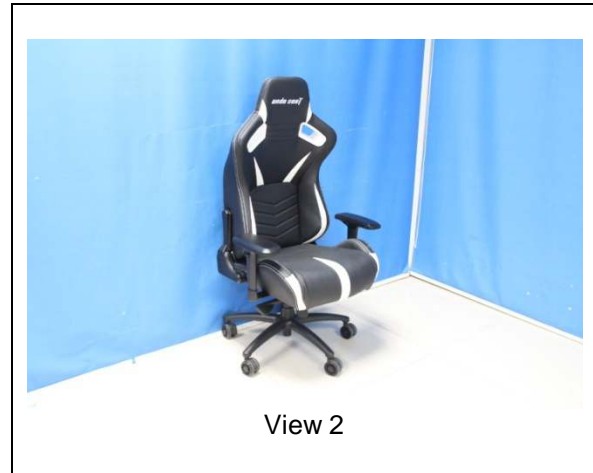
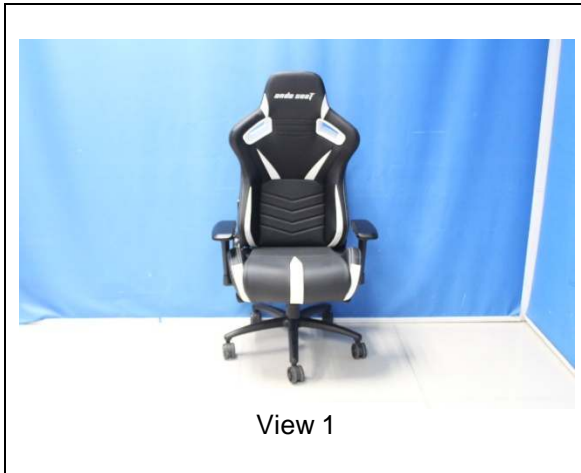
### SAMPLE INFORMATION AND PICTURES

Weight: 29.20 kg

Overall Dimensions: 792 mm L x 740 mm W x 1335~1402 mm H

Other Dimensions: /

#### Sample as Received

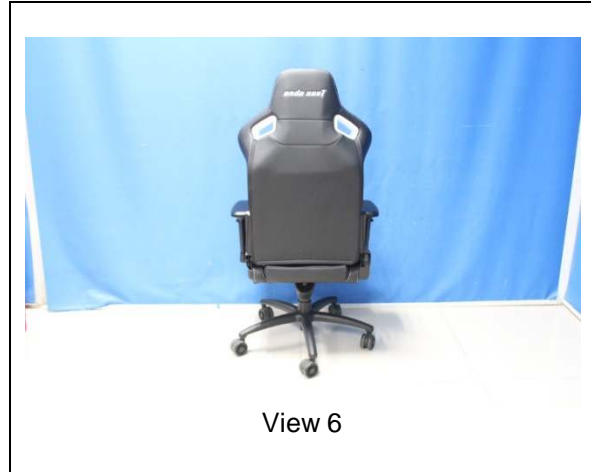
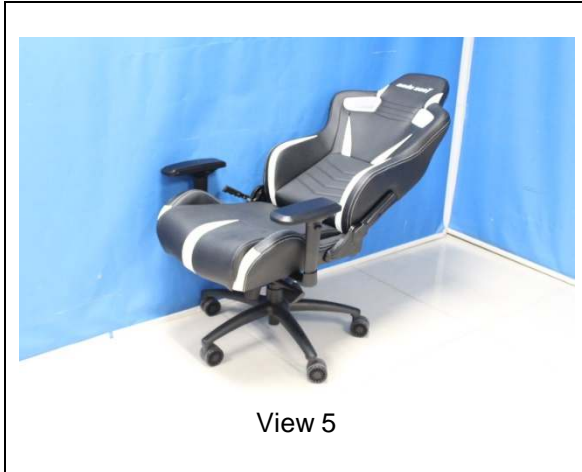


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\*\*\*End of Report\*\*\*



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