

Test Report

No.: 64.190.24.1764.01-00

Dated: 2024-09-18



Applicant: B.one Furniture Company Limited
Address: No.1&3 Youyi Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province, China
Sample Submission: The samples were submitted by applicant and identified.
Product Name: Office chair
Order No.: /
Identification/Style No.: D270
Manufacturer: /
Country of Origin: /
Buyer: /
Export to: /
Receipt Date of Sample: 2024-08-08
Date of Testing: From 2024-08-08 to 2024-09-03
Test Result: Refer to the data listed in following pages

Test Specification(s) or Test Item(s):

Conclusions:

1. ANSI/BIFMA X5.1-2017 (R2022) General-Purpose Office Chairs—Tests

Pass

Hardline Laboratory

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch



Tested By: Knight Li
Knight Li
Test Engineer

Reviewed By: Allen Guo
Allen Guo
Designated Reviewer

Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied. Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see "Testing, Certification, Validation and Verification Regulations", chapter A-3.3. For full version, please visit: EN : <https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en> ; SCN: <https://www.tuvsud.cn/zh-cn/terms-and-conditions> ; TCN: <https://www.tuvsud.com/zh-tw/terms-and-conditions>
- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full, without the written approval of the laboratory.

Laboratory:
B1/F. of Building A2, Building D1, No.63,
Chuangqi Road, Shilou, Panyu District,
Guangzhou, Guangdong, China 511447

Telephone : +86 20 3832 0668
Telefax : +86 20 3832 0478
<https://www.tuvsud.com>

Regd. Office:
TÜV SÜD Certification and Testing (China) Co.,
Ltd. Guangzhou Branch 5F, Communication
Building, 163 Pingyun Rd, Huangpu West Ave.
Guangzhou 510656P.R. China

Page 1 of 5

Description of the test subject:

1	Product Description	Office chair
2	Dimensions / Weight	H x W x D (mm): 980~1270 x 745 x 682~910 Weight (kg): 19.8
3	Intended use	Office use
Front view		Side view
		
Back view		Bottom view
		



Sample preparation: the sample was stored in indoor ambient conditions for 24h

Test condition: 23°C 53%RH

Test Results:

1. ANSI/BIFMA X5.1-2017 (R2022) General-Purpose Office Chairs—Tests

Clause	Requirement -Test	Measuring result- Remark	Verdict
1	Scope		
2	Definitions		
3	General		
4	Type of Chairs	Type I and Type III	/
5	Backrest Strength Test - Static- Type I and II		/
	Functional Load	Force: 667N Time: 1min	P
	Proof Load	Force: 1001N Time: 1min	P
6	Backrest Strength Test - Static- Type III		/
	Functional Load	Force: 667N Time: 1min	P
	Proof Load	Force: 1001N Time: 1min	P
7	Drop test-Dynamic		/
	Functional Load Test	Drop weight: 102kg Drop height: 152mm	P
	Proof Load Test	Drop weight: 136kg Drop height: 152mm	P
8	Swivel test-Cyclic	Load: 122kg Cycles: 120000	P
9	Tilt Mechanism Test-Cyclic	Load: 109kg Cycles: 300000	P
10	Seating Durability Tests-Cyclic		/
	Impact Test	Impact weight: 57kg Cycles: 100000	P
	Front Corner Load-Ease Test – Cyclic – Off – center	Force: 890N Cycles: 20000/Corner	P
11	Stability Tests		/
	Rear Stability Test for Type III Chairs	Fulfilled	P
	Rear Stability Test for Type I and II Chairs	Fulfilled	P
	Front Stability Test	Fulfilled	P
12	Arm Strength Test - Vertical - Static		/
	Functional Load	Force: 750N Time: 1min	P
	Proof Load	Force: 1125N Time: 15s	P



Clause	Requirement -Test	Measuring result- Remark	Verdict
13	Arm Strength Test - Horizontal - Static		/
	Functional Load	Force: 445N Time: 1min	P
	Proof Load	Force: 667N Time: 15s	P
14	Backrest Durability Test - Cyclic - Type I	Force: 445N Cycles: 120000	P
15	Backrest Durability Test - Cyclic - Type II and Type III	Force: 334N Cycles: 120000	P
16	Caster/Chair Base Durability Test - Cyclic	Loading: 122kg Cycles over the obstacles: 2000 Cycles on a smooth: 98000	P
17	Leg strength Test - Front and Side Application		/
	Front Load Test-Functional Load Test	Force: 334N Time: 1min	N/A
	Front Load Test-Proof Load Test	Force: 503N Time: 1min	N/A
	Side Load Test-Functional Load Test	Force: 334N Time: 1min	N/A
	Side Load Test-Proof Load Test	Force: 503N Time: 1min	N/A
18	Footrest Static Load Test - Vertical		/
	Functional Load	F: 890N Time: 1min Without footrest	N/A
	Proof Load	F: 1334N Time: 1min Without footrest	N/A
19	Footrest Durability Test - Vertical - Cyclic	F: 890N Cycles: 50000 Without footrest	N/A
20	Arm Durability Test – Cyclic	F: 400N Cycles: 60000	P
21	Out Stop Tests for Chairs with Manually Adjustable Seat Depth	Attached weight: 25kg Load: 74kg Cycles: 25	P
22	Tablet Arm Chair Static Load Test	Load: 68kg Time: 1min	N/A
23	Tablet Arm Chair Load Ease Test - Cyclic	Load: 25kg Cycles: 100000	N/A



Clause	Requirement -Test	Measuring result- Remark	Verdict
24	Structural Durability	Load: 109kg Force: 334N Cycles: 25000	N/A
Appendix C	Base Test - Informative	Force: 11120N Time: 1min Cycles: 2	P

Remark:

1. Abbreviation: P=Pass; F=Fail; N/A=Not Applicable; N/T=Not Tested; N/R=Not Requested.
2. The test results exclusively based on the submitted samples.
3. Clause(s) with the symbol “/” in the result refers to the result(s) of this sub-clause(s).
4. Specific requirement of test report as per clause 7.8.3 of CNAS-CL01-2018 or other accreditation scheme, such as: remark of subcontract information or on-site testing information.

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.

Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.

By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

-End of Test Report-

