

Test Report

No.: 70.404.23.10739.02

Date: 2023-06-19



Applicant: NANJING HENGNING HOME FURNISHING CO., LTD.
Address: C-1401, NO.62 ANDEMEN ST, YUHUATAI DISTRICT, NANJING, JIANGSU, CHINA 210000
Product Name: Ergonomic Mesh Office Chair Computer Executive Desk Chair 4D Armrests, Adjustable Tilt Lock
Model Name: CM-K19-Grey&B0C4Y2CNR1 / CM-K19-Grey1&B0C4XXLV2V / CM-K19-GREY&B0C4Y2GCXK / CM-K19-GREY1/B0C4Y4L2PN
Country of Origin: CHINA
Country of Destination: USA
Buyer: NANJING HENGNING HOME FURNISHING CO., LTD.
Receipt Date of Sample: 2023-05-15, 2023-06-15
Date of Testing: From 2023-05-15 to 2023-06-19
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item

Conclusion
Pass

1. ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center
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- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
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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.

Description of Tested Subject:

1	Product Description	OFFICE CHAIR
2	Dimensions / Weight	D680~735 x W695~ 766 x H996~1094 (mm) / 17.8 (kg)
	Dimensions / Weight – base	R342 (mm) / 1.8 (kg)
3	Type of Chairs	Type I & III
Front view		Front view
		
Side view		Back view
		

Bottom view	Component parts
	



Test Result(s):

1. ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests

Item	Requirement-test item	Result, Remark	Evaluation
3	General		-
4	Types of Chairs	Type I & III	-
5	Backrest Strength Test - Static - Type I	Functional Load: 667 N (150 lbf.) Cycle: 1×1 min Proof Load: 1001 N (225 lbf.) Cycle: 1×1 min	P
6	Backrest Strength Test - Static - Type II & III	Functional Load: 667 N (150 lbf.) Cycle: 1×1 min Proof Load: 1001 N (225 lbf.) Cycle: 1×1 min	P
7	Drop Test - Dynamic	Functional Load Test: The highest position: Weight: 102 kg (225 lb.) Height: 152 mm (6 in.) Cycle: 1 The lowest position: Weight: 102 kg (225 lb.) Height: 152 mm (6 in.) Cycle: 1 Proof Load Test: The highest position: Weight: 136 kg (300 lb.) Height: 152 mm (6 in.) Cycle: 1 The lowest position: Weight: 136 kg (300 lb.) Height: 152 mm (6 in.) Cycle: 1	P
8	Swivel Test - Cyclic	The highest position: Load: 122 kg (270 lb.) Cycle: 60,000 The lowest position: Load: 122 kg (270 lb.) Cycle: 60,000	P
9	Tilt Mechanism Test - Cyclic	Load: 109 kg (240 lbs.) Cycle: 300,000	P

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10	Seating Durability Tests – Cyclic		P
	Impact Test	Drop Weight: 57 kg (125 lb.) Height: 36 mm (14 in.) Cycle: 100,000	P
	Front Corner Load-Ease Test – Cyclic – Off-center	Load: 890 N (200 lbf.) Cycle: 40,000	P
11	Stability Tests		P
	Rear Stability		P
	Rear Stability Test for Type III Chairs		P
	Rear Stability Test for Type I and II Chairs		P
	Front Stability		P
12	Arm Strength Test - Vertical - Static	Functional Load: 750 N (169 lbf.) Cycle: 1×1 min Proof Load: 1125 N (253 lbf.) Cycle: 1×1 min	P
13	Arm Strength Test - Horizontal - Static	Functional Load: 445 N (100 lbf.) Cycle: 1×1 min Proof Load: 667 N (150 lbf.) Cycle: 1×1 min	P
14	Backrest Durability Test - Cyclic - Type I	Seat Load: 109 kg (240 lbs) Back Load: 445 N (100 lbf.) Cycle: 120,000	P
15	Backrest Durability Test - Cyclic - Type II and III	Seat Load: 109 kg (240 lbs.) Back Load: 334 N (75 lbf.) Cycle: 120,000	P
16	Caster/Chair Base Durability Test - Cyclic		P
	Caster/Chair Base Durability Test for Pedestal Base Chairs	Seat Load: 122 kg (270 lb.) Cycle on the surface with obstacles: 2,000 Cycle on the surface without obstacles: 98,000 Pull force: 22 N (5 lbf.)	P
	Caster/Chair Frame Durability Test for Non-pedestal Chairs with Casters		N/A
17	Leg Strength Test - Front and Side Application		N/A
	Front Load Test		N/A
	Side Load Test		N/A
18	Footrest Static Load Test - Vertical		N/A
19	Footrest Durability Test - Vertical - Cyclic		N/A
20	Arm Durability Test - Cyclic	Load: 400 N (90 lbf.) Cycle: 60,000	P
21	Out Stop Tests for Chairs with Manually	Seat Load: 74 kg (163 lb.)	P

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	Adjustable Seat Depth	Pull Load: 25 kg (55 lb.)	
22	Tablet Arm Chair Static Load Test		N/A
23	Tablet Arm Chair Load Ease Test - Cyclic		N/A
24	Structural Durability Test - Cyclic		N/A
Appendix A	Base Test - Static	Force: 11,120 N (2500 lbf.) Cycle: 2×1min	P
Appendix H	Simultaneous Side Legs Strength Test		N/A

Abbreviation: P=Pass; F=Fail; N/A = Not Applicable; N/T=Not Tested; N/R=Not Requested

Remark:

1. The sample has been examined according to the requirements described in the product standard.

-End of Test Report-

