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 SHUNDE, FOSHAN CITY, GUANGDONG, CHINA

Sample Description : GAS SPRING CR(CLASS3)

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 : Mar 03, 2021

Test Performing Date : Mar 03, 2021 to Mar 16, 2021

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	Backrest Strength Test - Static - Type I and II, Drop Test - Dynamic and Seating Durability Tests – Cyclic - Impact Test of ANSI/BIFMA X5.1-2017	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



Bill Wang
 Authorized Signatory



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Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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TESTS AND RESULTS

Test Conducted:

Backrest Strength Test - Static - Type I and II, Drop Test - Dynamic and Seating Durability Tests – Cyclic - Impact Test of ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests.

No. of Sample:

2 pieces. For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results
5 Backrest Strength Test - Static - Type I and II	
<p>5.4.1 Functional Load There shall be no loss of serviceability to the chair when 667 N (150 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 70 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees ± 10 degrees throughout the loading of the backrest.</p>	PASS
<p>5.4.2 Proof Load There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1001 N (225 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 70 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees ± 10 degrees throughout the loading of the backrest.</p>	PASS
7 Drop Test - Dynamic	
<p>7.4.1 Functional Load Test There shall be no loss of serviceability when a test bag weighing 102 kg (225 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.</p>	PASS
<p>7.4.2 Proof Load Test There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable when a test bag weighing 136 kg (300 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.</p>	PASS
10 Seating Durability Tests – Cyclic	
<p>10.3 Impact Test There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 36 mm (1.4 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles. The drop height and/or seat height shall be adjusted during the test if the drop height changes by more than 13 mm (0.5 in.). The cycling device shall be set at a rate between 10 and 30 cycles per minute. <i>Note: Chairs with less than 44 mm (1.75 in.) of cushioning materials in the seat shall have foam added to bring total cushioning thickness to 50 mm ± 6 mm (2 in. ± 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N ± 22 N (45 lbf. ± 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.</i></p>	PASS



Remark:

1. The applicant submitted the gas spring only, the other components needed in the test are provided by lab;
2. For the sample information and pictures, please refer to the following page.



SAMPLE INFORMATION AND PICTURES

Weight: 963.44 g/piece

Overall Dimensions: $\Phi 27.92$ mm x $\Phi 49.81$ mm x (268~358) mm L

Other Dimensions: /

Sample as Received



View 1



View 2



View 3



View 4

End of Report

