



## Test Report

Date : 2023-04-13

No. : HT23040011

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**Applicant** : Medicare Plus Co., Ltd.  
Rm E, 3/F., Phase 1, Hang Fung Ind. Bldg.,  
2G Hok Yuen St., Hong Hum, Kowloon.

Attn.: Mr. Ronald Tse

**Description of Sample(s)** : One (1) group of submitted chair sample said to be  
Seating Section (Black)  
Style No.: BNF, GLD882022, MD-OF-Chair-02  
End use: Office Chair, Office Furniture, Home Furniture  
Country of Origin: China  
Country of Destination: Hong Kong

**Date Sample(s) Received** : 2023-04-11

**Date Tested** : 2023-04-11 to 2023-04-13

**Investigation Requested** : Selected test(s) as detailed herein.

**Conclusion(s)** : The submitted samples (Seat of the finished Office Chair) did not ignite under the tests for assessment of ignitability as stipulated in clauses 12.3.2 and 12.3.3 of BS 5852:2006 with ignition sources (0, 1 and 5) and testing procedure set out in clauses 12.4 and 12.5 of BS 5852:2006.



CHENG Chun-yiu, David,  
Authorized Signatory

The Hong Kong Standards and Testing Centre Limited

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### TEST RESULT(S):

#### Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources – complete item (BS 5852:2006, clause 12)

Ignition Source : Smouldering ignition source 0 - cigarette

Condition of test specimen: A minimum of 24 hours at  $23 \pm 2^{\circ}\text{C}$  and  $50 \pm 5\%$  R.H.

Test Condition: Temperature:  $23^{\circ}\text{C}$ , Relative humidity: 57 %

The following test results relate only to the ignitability of complete item (BS 5852:2006, clause 12) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

**Ignitability performance index: BS 5852:2006 Clause 12 NI/0(Pass). See summary below:**

#### Criteria of ignition

<u>Progressive smouldering ignition</u>	<u>Test position</u>				
	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>
a) any test specimen that displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;	N.O.	N.R.	N.R.	N.R.	N.R.
b) for the smouldering cigarette source 0: any test specimen that produces externally detectable amounts of smoke, heat or glowing within the period from the extinction of the source until 60 min after placement of the source.	N.O.	N.R.	N.R.	N.R.	N.R.
c) for all flaming ignition sources: any test specimen that smoulders until it is essentially consumed or that smoulders to the extremities of the specimen, i.e. to either side of the specimen or to the extremities of the upholstered test zone, within the duration of the test.	N.O.	N.R.	N.R.	N.R.	N.R.
d) for flaming ignition sources 1, 2 and 3: any test specimen that produces externally detectable amounts of smoke, heat or glowing 15min after removal of the burner tube;	N.A.	N.A.	N.A.	N.A.	N.A.
e) for flaming ignition sources 4, 5, 6 and 7: any test specimen that produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib;	N.A.	N.A.	N.A.	N.A.	N.A.
f) any test specimen that, on final examination, shows evidence of charring within the filling (other than discolouration) more than 100 mm in any direction, apart from upwards, from the nearest part of the original position of the source.	N.O.	N.R.	N.R.	N.R.	N.R.

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### TEST RESULT(S):

<u>Flaming ignition</u>	<u>Test position</u>				
	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>
a) any test specimen that displays escalating flaming combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	N.O.	N.R.	N.R.	N.R.	N.R.
b) any test specimen that burns until it is essentially consumed within the test duration.	N.O.	N.R.	N.R.	N.R.	N.R.
c) any test specimen on which any flame front reaches the extremities of the specimen other than the top of the vertical part of the test specimen, within the duration of the test;	N.O.	N.R.	N.R.	N.R.	N.R.
d) for flaming ignition sources 1, 2 and 3: any test specimen that continues to flame for more than 120 s after removal of the burner tube or in which the flame front spreads past a vertical line 100 mm from the tip of the burner tube;	N.A.	N.A.	N.A.	N.A.	N.A.
e) for flaming ignition sources 4 and 5: any test specimen that continues to flame for more than 10 min after ignition of the crib;	N.A.	N.A.	N.A.	N.A.	N.A.
f) for flaming ignition sources 6 and 7: any test specimen that continues to flame for more than 13 min after ignition of the crib;	N.A.	N.A.	N.A.	N.A.	N.A.
g) for all sources: any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than the time given in d), e) or f)	N.A.	N.A.	N.A.	N.A.	N.A.
h) For source 0 (cigarette) : the occurrence of any visible flaming within 60 min of placement of the cigarette	N.O.	N.R.	N.R.	N.R.	N.R.

- Remarks :
- 1) N.O. denotes Not Observed
  - 2) N.R. denotes Not Request
  - 3) N.A. denotes Not applicable
  - 4) The ignitability performance of a test specimen shall be designated by the number of the clause of BS 5852:2006 together with the ignition source to which the test specimen was subjected preceded by the letters 'NI' if the specimen did not ignite or by the letter 'I' if it did ignite.
  - 5) Test position :
    - a) any surface which can retain the cigarette;
    - b) a groove, recess or junction which can retain the cigarette;
    - c) as item b), and long enough to fully support the cigarette; (tip of seat in seat-up configuration)
    - d) as item b) or c), in the position giving maximum contact to the peripheral area of the cigarette and ensuring an adequate supply of air;
    - e) as item a), b), c) or d), where the padding is thickest.

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### TEST RESULT(S):

#### Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources – complete item (BS 5852:2006, clause 12)

Ignition Source : Smouldering ignition source 1 – butane flame test

Condition of test specimen: A minimum of 24 hours at  $23 \pm 2^{\circ}\text{C}$  and  $50 \pm 5\%$  R.H.

Test Condition: Temperature:  $23^{\circ}\text{C}$ , Relative humidity: 57 %

The following test results relate only to the ignitability of complete item (BS 5852:2006, clause 12) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

**Ignitability performance index: BS 5852:2006 Clause 12 NI/1(Pass). See summary below:**

#### Criteria of ignition

##### Progressive smouldering ignition

	<u>Test position</u>		
	<u>a</u>	<u>b</u>	<u>c</u>
a) any test specimen that displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;	N.O.	N.R.	N.R.
b) for the smouldering cigarette source 0: any test specimen that produces externally detectable amounts of smoke, heat or glowing within the period from the extinction of the source until 60 min after placement of the source.	N.A.	N.A.	N.A.
c) for all flaming ignition sources: any test specimen that smoulders until it is essentially consumed or that smoulders to the extremities of the specimen, i.e. to either side of the specimen or to the extremities of the upholstered test zone, within the duration of the test.	N.O.	N.R.	N.R.
d) for flaming ignition sources 2 and 3: any test specimen that produces externally detectable amounts of smoke, heat or glowing 15min after removal of the burner tube;	N.A.	N.A.	N.A.
e) for flaming ignition sources 4, 5, 6 and 7: any test specimen that produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib;	N.A.	N.A.	N.A.
f) any test specimen that, on final examination, shows evidence of charring within the filling (other than discolouration) more than 100 mm in any direction, apart from upwards, from the nearest part of the original position of the source.	N.O.	N.R.	N.R.

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### TEST RESULT(S):

<u>Flaming ignition</u>	<u>Test position</u>		
	<u>a</u>	<u>b</u>	<u>c</u>
a) any test specimen that displays escalating flaming combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	N.O.	N.R.	N.R.
b) any test specimen that burns until it is essentially consumed within the test duration.	N.O.	N.R.	N.R.
c) any test specimen on which any flame front reaches the extremities of the specimen other than the top of the vertical part of the test specimen, within the duration of the test;	N.O.	N.R.	N.R.
d) for flaming ignition sources 2 and 3: any test specimen that continues to flame for more than 120 s after removal of the burner tube or in which the flame front spreads past a vertical line 100 mm from the tip of the burner tube;	N.A.	N.A.	N.A.
e) for flaming ignition sources 4 and 5: any test specimen that continues to flame for more than 10 min after ignition of the crib;	N.A.	N.A.	N.A.
f) for flaming ignition sources 6 and 7: any test specimen that continues to flame for more than 13 min after ignition of the crib;	N.A.	N.A.	N.A.
g) for all sources: any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than the time given in d), e) or f)	N.O.	N.R.	N.R.
h) For source 0 (cigarette) : the occurrence of any visible flaming within 60 min of placement of the cigarette	N.O.	N.R.	N.R.

- Remarks :
- 1) N.O. denotes Not Observed
  - 2) N.R. denotes Not Request
  - 3) N.A. denotes Not applicable
  - 4) The ignitability performance of a test specimen shall be designated by the number of the clause of BS 5852:2006 together with the ignition source to which the test specimen was subjected preceded by the letters 'NI' if the specimen did not ignite or by the letter 'I' if it did ignite.
  - 5) Test position :
    - a) seating area;
    - b) Ignition from beneath;
    - c) Deliberate ignition.

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### TEST RESULT(S):

#### Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources – complete item modified (BS 5852:2006, clause 12) – test seat area only

Ignition Source : Wooden crib: source 5

Condition of test specimen: A minimum of 24 hours at  $23 \pm 2^{\circ}\text{C}$  and  $50 \pm 5\%$  R.H.

Test Condition: Temperature:  $23^{\circ}\text{C}$ , Relative humidity: 57 %

The following test results relate only to the ignitability of complete item (BS 5852:2006, clause 12) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

**Ignitability performance index: BS 5852:2006 Clause 12 P/5(Pass). See summary below:**

#### Criteria of ignition

##### Progressive smouldering ignition

	<u>Seat area</u>	<u>Peripheral ignition</u>	<u>Ignition from beneath</u>	<u>Seat-up configuration of tip-up seating</u>
a) any test specimen that displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;	N.O.	N.R.	N.R.	N.A.
b) for the smouldering cigarette source 0: any test specimen that produces externally detectable amounts of smoke, heat or glowing within the period from the extinction of the source until 60 min after placement of the source.	N.A.	N.A.	N.A.	N.A.
c) for all flaming ignition sources: any test specimen that smoulders until it is essentially consumed or that smoulders to the extremities of the specimen, i.e. to either side of the specimen or to the extremities of the upholstered test zone, within the duration of the test;	N.O.	N.R.	N.R.	N.A.
d) for flaming ignition sources 2 and 3: any test specimen that produces externally detectable amounts of smoke, heat or glowing 15min after removal of the burner tube;	N.A.	N.A.	N.A.	N.A.
e) for flaming ignition sources 4, 5, 6 and 7: any test specimen that produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib;	N.O.	N.R.	N.R.	N.A.

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- |   |      |      |      |      |
|---|------|------|------|------|
| f) any test specimen that, on final examination, shows evidence of charring within the filling (other than discolouration) more than 100 mm in any direction, apart from upwards, from the nearest part of the original position of the source. | N.O. | N.R. | N.R. | N.A. |
|---|------|------|------|------|

### TEST RESULT(S):

<u>Flaming ignition</u>	<u>Seat area</u>	<u>Peripheral ignition</u>	<u>Ignition from beneath</u>	<u>Seat-up configuration of tip-up seating</u>
a) any test specimen that displays escalating flaming combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	N.O.	N.R.	N.R.	N.A.
b) any test specimen that burns until it is essentially consumed within the test duration.	N.O.	N.R.	N.R.	N.A.
c) any test specimen on which any flame front reaches the extremities of the specimen other than the top of the vertical part of the test specimen within the duration of the test.	N.O.	N.R.	N.R.	N.A.
d) for flaming ignition sources 1, 2 and 3: any test specimen that continues to flame for more than 120 s after removal of the burner tube or in which the flame front spreads past a vertical line 100 mm from the tip of the burner tube;	N.A.	N.A.	N.A.	N.A.
e) for flaming ignition sources 4 and 5: any test specimen that continues to flame for more than 10 min after ignition of the crib;	N.O.	N.R.	N.R.	N.A.
f) for flaming ignition sources 6 and 7: any test specimen that continues to flame for more than 13 min after ignition of the crib;	N.A.	N.A.	N.A.	N.A.
g) for all sources: any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than the time given in d), e) or f)	N.O.	N.R.	N.R.	N.A.
h) For source 0 (cigarette) : the occurrence of any visible flaming within 60 min of placement of the cigarette	N.A.	N.A.	N.A.	N.A.

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### TEST RESULT(S):

Note:

	Duration			
	1 <sup>st</sup> test		2 <sup>nd</sup> test	
Test position	Flaming	Smoulder	Flaming	Smoulder
Seat area	4 min 17 sec	13 min 49 sec	4 min 26 sec	16 min 21 sec

- Remarks:
- 1) N.O. denotes Not Observed
  - 2) N.A. denotes Not applicable
  - 3) N.R. denotes Not request
  - 4) The ignitability performance of a test specimen shall be designated by the number of the clause of BS 5852:2006 together with the ignition source to which the test specimen was subjected preceded by the letters 'NI' if the specimen did not ignite or by the letter 'I' if it did ignite.

Remark: Decision rule

*For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability;*

*For specification with lower limit, compliance is deemed to occur if the measured result is above the limit, even extended downwards by the expanded uncertainty with 95% coverage probability;*

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

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5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
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8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
12. Issuance records of the Report are available on the internet at [www.stc.group](http://www.stc.group). Further enquiry of validity or verification of the Reports should be addressed to the Company.