

# TEST REPORT

Applicant: SUNNYLIFE GROUP PTY LTD  
B1 85 DUNNING AVENUE  
ROSEBERY  
NSW 2018  
AUSTRALIA  
Attn: NOLIA CHIU

Number: HKGH0302361202

Date: Oct 05, 2023

Sample and Information provided by customer :  
Item Name : **Deluxe Beach Chair**  
Item No. : **SCDBCCBL**  
Quantity : **6 Pieces**  
Country of Origin : **China**  
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For and on behalf of :  
Intertek Testing Services HK Ltd.



Cindy I.K. Chan  
Vice President



## TEST REPORT

Number : HKGH0302361202

**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) BS EN 12520 : 2015 Furniture – Strength, durability and safety- Requirements for domestic seating, excluding: - Clause 5.3 Stability: BS EN 1022 : 2018, 7.4.4 Reclining seating without leg rest	Pass
(2) BS EN 1022 : 2018 Furniture- Seating- Determination of stability, excluding: - Clause 7.4.4 Reclining seating without leg rest	Pass
(3) Fibre Analysis - ISO 1833- (9, 17 ) : 2019	See Details Enclosed (See Remark *1)
(4) Fibre Analysis - ISO 1833- (7) : 2017	See Details Enclosed (See Remark *1)
(5) Textile Labeling - Fiber Identification For Europe (Regulation (EU) No. 1007/2011 Of The European Parliament And Of The Council)	See Details Enclosed
(6) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 63 & Commission regulation (EU) 2015/628 - Lead content requirement	Pass
(7) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 63 & Commission regulation (EU) 2015/628 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Lead content requirement	Pass
(8) Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 - Cadmium content requirement	Pass
(9) Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Cadmium content requirement	Pass
(10) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass



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<u>Requirement</u>	<u>Result</u>
(11) REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Polycyclic aromatic hydrocarbons content	Pass
(12) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 43 & amendment (EC) no. 552/2009 and (EU) no. 2096/2020 - Azocolourants content ∞	Pass
(13) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 43 & amendment no. 552/2009 and 2096/2020 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Azocolourants content requirement ∞	Pass
(14) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(15) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.48 Sharp point test - Part 1500.49 Sharp edge test	Pass

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Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.qrd.by/decision-rule-doc>.  
If decision rule already in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

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(1) Safety requirements of domestic furniture – seating

Test Standard : BS EN 12520 : 2015 - Furniture – Strength, durability and safety – Requirements for domestic seating.

Number of samples tested : One (1) piece.

Initial inspection : No visible defects was found.

The tests were carried out in indoor ambient conditions with temperature range from 21.1 to 23.6 °C.

Clause	Test Method	Requirement	Assessment
5.1	BS EN 12520	General requirements	P
5.2.1	BS EN 12520	Shear and squeeze points when setting up and folding	P
5.2.2	BS EN 12520	Shear and squeeze points under influence of powered mechanisms	NA
5.2.3	BS EN 12520	Shear and squeeze points during use	P
5.3	BS EN 12520	Stability (Assessed according to BS EN 1022)	
	BS EN 1022 : 2018, 7.3.1	Forwards overturning	P
	BS EN 1022 : 2018, 7.3.2	Forwards overturning for seating with foot rest	NA
	BS EN 1022 : 2018, 7.3.3	Corner stability test	NA
	BS EN 1022 : 2018, 7.3.4	Sideways overturning, all seating without arm rests	NA
	BS EN 1022 : 2018, 7.3.5	Sideways overturning, all other seating	P
	BS EN 1022 : 2018, 7.3.6	Rearwards overturning, all seating with back rests	P
	BS EN 1022 : 2018, 7.4.2	Tilting chairs	NA
	BS EN 1022 : 2018, 7.4.3	Reclining seating with leg rest	NA
	BS EN 1022 : 2018, 7.4.4	Reclining seating without leg rest	NR
	BS EN 1022 : 2018, 7.4.5	Rearwards stability test for rocking chairs	NA
	BS EN 1022 : 2018, 8	Loungers	NA
5.4	BS EN 12520	Strength and durability (Assessed according to BS EN 1728 : 2012)	
	EN 1728 : 2012, 6.4	Seat static load and back static load test	P
	EN 1728 : 2012, 6.5	Seat front edge static load test	P
	EN 1728 : 2012, 6.8	Foot rest static load test Note: Applicable to seating with a seat height greater than 600 mm.	NA
	EN 1728 : 2012, 6.10	Arm rest sideways static load test	P
	EN 1728 : 2012, 6.11	Arm rest downwards static load test	P
	EN 1728 : 2012, 6.17	Combined seat and back durability test	P
	EN 1728 : 2012, 6.18	Seat front edge durability test	P
	EN 1728 : 2012, 6.20	Arm rest durability test	P
	EN 1728 : 2012, 6.15	Leg forward static load test	P



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Clause	Test Method	Requirement	Assessment
	EN 1728 : 2012, 6.16	Leg sideways static load test	P
	EN 1728 : 2012, 6.24	Seat impact test	P
	EN 1728 : 2012, 6.28	Backwards fall test Note : Applicable 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 less than 30 N.	P
	EN 1728 : 2012, 6.25	Back impact test Note : Applicable for all seating not tested in backwards fall test	NA
6	BS EN 12520	Information for use	P

Abbreviation : P = Pass; NA = Not Applicable; NR = Not Requested

Date sample received : Jun 15, 2023, Sep 28, 2023

Testing period : Jun 15, 2023 to Sep 28, 2023



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Number : HKGH0302361202

(2) Stability of Seating Furniture

Test Standard : BS EN 1022 : 2018 - Furniture - Seating - Determination of stability.

Number of samples tested : One (1) piece.

Clause	Requirement	Assessment
7	Test methods for assessing stability of all stability of all seating except loungers	
7.3	Test procedures, all seating	
7.3.1	Forwards overturning	P
7.3.2	Forwards overturning for seating with footrest	NA
7.3.3	Corner stability test	NA
7.3.4	Sideways overbalancing, all seating without arm rests	NA
7.3.5	Sideways overbalancing, all other seating	
7.3.5.2	Seating with arm rests	P
7.3.5.3	Seating with raised side edges	NA
7.3.6	Rearwards overbalancing, all seating with back rests	P
7.4	Additional test procedures for seating with reclining back rests	
7.4.2	Tilting seating	NA
7.4.3	Reclining seating with leg rest	NA
7.4.4	Reclining seating without leg rest	NR
7.4.5	Rearwards stability test for rocking chairs	NA
8	Loungers	
8.3.1	Forwards overturning	NA
8.3.2	Sideways overturning	NA

Abbreviation : P = Pass; NA = Not Applicable; NR = Not Requested

Date sample received : Jun 15, 2023, Sep 28, 2023

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(3) Fibre Analysis:

ISO 1833- (9, 17) : 2019

Shell  
Face  
100% Polyester

Marked  
100% Polyester

**Remark**

\*1 For US & EU market. We recommended the sample to be labelled as

“Shell: Face – 100% Polyester  
Back: Polyurethane

Lining: Polyethylene

Foam: Polyethylene

Mesh: 100% Nylon”

Date sample received : Jun 15, 2023

Testing period : Jun 15, 2023 to Jun 29, 2023

(4) Fibre Analysis:

ISO 1833- (7) : 2017

Mesh  
100% Nylon

Marked  
100% Polyester

**Remark**

\*1 For US & EU market. We recommended the sample to be labelled as

“Shell: Face – 100% Polyester  
Back: Polyurethane

Lining: Polyethylene

Foam: Polyethylene

Mesh: 100% Nylon”

Date sample received : Jun 15, 2023

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(5) Textile Labeling - Fiber Identification For Europe (Regulation (EU) No. 1007/2011 Of The European Parliament And Of The Council):

Textile labelling shall be durable, easily legible, visible and accessible and, in the case of a label, securely attached.

- Fibre Content Label

Meet

- Verify Label Claim

See Remark \*1

### Remark

\*1 For US & EU market. We recommended the sample to be labelled as

“Shell: Face – 100% Polyester  
Back: Polyurethane  
Lining: Polyethylene  
Foam: Polyethylene  
Mesh: 100% Nylon”

Date sample received : Jun 15, 2023  
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**(6) Lead (Pb) Content**

Test Method : Lead content requirement in Commission regulation (EU) 2015/628 amending Annex XVII item 63 of the REACH regulation (EC) No. 1907/2006, acid digestion was used and total Lead content was determined by inductively coupled argon plasma spectrometry.

**Lead Content:**

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2)	ND	0.05
(3/4/5)	ND	0.05
(6)	ND	0.05
(7)	ND	0.05
(8)	ND	0.05
(9/10/11)	ND	0.05
(12/13/14)	ND	0.05
(15/16)	ND	0.05
(17/18)	ND	0.05
(19)	ND	0.05
(20)	ND	0.05
(21)	ND	0.05
(22)	ND	0.05
(23)	ND	0.05
(24)	ND	0.05
(25)	ND	0.05
(26)	ND	0.05
(27)	ND	0.05
(28)	ND	0.05

ND : Not detected (< 0.002%)

**Tested Components:**

- (1) White coating on metal (frame of folding chair).
- (2) Lacquer on wood (arms of folding chair).
- (3) Off white plastic (rod, round cap, adjusting hinge of frame, arms of folding chair).
- (4) White plastic (holder of arms, base pad of frame of folding chair).
- (5) Translucent white plastic (buckle of folding chair).
- (6) White hooked velcro (holder of cushion).
- (7) Dull white plastic (zipper puller of cooler bag of folding chair).
- (8) White plastic sheet (lining of cooler bag of folding chair).
- (9) Transparent ivory plastic (zipper teeth of cooler bag of folding chair).
- (10) Ivory foam (cushion).
- (11) White synthetic sheet (base of pocket).
- (12) White fabric with navy printing and with synthetic backing (body, pocket, cooler bag of folding chair).
- (13) Ivory woven with black printing (brand label).
- (14) White satin with navy printing (sewn-in label).
- (15) White webbing (binding of body of folding chair).
- (16) Pale pink webbing (strap, handle of folding chair).
- (17) Ivory fabric (zipper tape of cooler bag).



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- (18) White looped velcro (holder of cushion).
- (19) Silver color metal excluding white coating (frame of folding chair).
- (20) Silver color metal excluding white coating (adjusting hinge of folding chair).
- (21) Blue plated metal (rivet).
- (22) Blue plated metal (eyelet).
- (23) Blue plated metal (screw).
- (24) Blue plated metal (nut).
- (25) Blue plated metal (axle).
- (26) Silver color metal (U-ring of cooler bag).
- (27) Silver color metal (zipper slider of cooler bag).
- (28) Brown wood (arms of folding chair).

Date sample received : Jun 15, 2023  
Test Period : Jun 15, 2023 to Jun 29, 2023

## (7) Lead (Pb) Content

Test Method : Lead content requirement in Commission regulation (EU) 2015/628 amending Annex XVII item 63 of the REACH regulation (EC) No. 1907/2006, acid digestion was used and total Lead content was determined by inductively coupled argon plasma spectrometry.

### Lead Content:

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2)	ND	0.05
(3/4/5)	ND	0.05
(6)	ND	0.05
(7)	ND	0.05
(8)	ND	0.05
(9/10/11)	ND	0.05
(12/13/14)	ND	0.05
(15/16)	ND	0.05
(17/18)	ND	0.05
(19)	ND	0.05
(20)	ND	0.05
(21)	ND	0.05
(22)	ND	0.05
(23)	ND	0.05
(24)	ND	0.05
(25)	ND	0.05
(26)	ND	0.05
(27)	ND	0.05
(28)	ND	0.05



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ND : Not detected (&lt; 0.002%)

## Tested Components:

- (1) White coating on metal (frame of folding chair).
- (2) Lacquer on wood (arms of folding chair).
- (3) Off white plastic (rod, round cap, adjusting hinge of frame, arms of folding chair).
- (4) White plastic (holder of arms, base pad of frame of folding chair).
- (5) Translucent white plastic (buckle of folding chair).
- (6) White hooked velcro (holder of cushion).
- (7) Dull white plastic (zipper puller of cooler bag of folding chair).
- (8) White plastic sheet (lining of cooler bag of folding chair).
- (9) Transparent ivory plastic (zipper teeth of cooler bag of folding chair).
- (10) Ivory foam (cushion).
- (11) White synthetic sheet (base of pocket).
- (12) White fabric with navy printing and with synthetic backing (body, pocket, cooler bag of folding chair).
- (13) Ivory woven with black printing (brand label).
- (14) White satin with navy printing (sewn-in label).
- (15) White webbing (binding of body of folding chair).
- (16) Pale pink webbing (strap, handle of folding chair).
- (17) Ivory fabric (zipper tape of cooler bag).
- (18) White looped velcro (holder of cushion).
- (19) Silver color metal excluding white coating (frame of folding chair).
- (20) Silver color metal excluding white coating (adjusting hinge of folding chair).
- (21) Blue plated metal (rivet).
- (22) Blue plated metal (eyelet).
- (23) Blue plated metal (screw).
- (24) Blue plated metal (nut).
- (25) Blue plated metal (axle).
- (26) Silver color metal (U-ring of cooler bag).
- (27) Silver color metal (zipper slider of cooler bag).
- (28) Brown wood (arms of folding chair).

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**(8) Cadmium (Cd) Content**

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2)	ND	0.1
(3/4/5)	ND	0.01
(6)	ND	0.01
(7)	ND	0.01
(8)	ND	0.01
(9/10/11)	ND	0.01
(12/13)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217

**Tested Components:**

- (1) White coating on metal (frame of folding chair).
- (2) Lacquer on wood (arms of folding chair).
- (3) Off white plastic (rod, round cap, adjusting hinge of frame, arms of folding chair).
- (4) White plastic (holder of arms, base pad of frame of folding chair).
- (5) Translucent white plastic (buckle of folding chair).
- (6) White hooked velcro (holder of cushion).
- (7) Dull white plastic (zipper puller of cooler bag of folding chair).
- (8) White plastic sheet (lining of cooler bag of folding chair).
- (9) Transparent ivory plastic (zipper teeth of cooler bag of folding chair).
- (10) Ivory foam (cushion).
- (11) White synthetic sheet (base of pocket).
- (12) White foam (inner part of cooler bag, strap) (internal).
- (13) Black plastic (inner part of back board of pocket) (internal).

Date sample received : Jun 15, 2023 and Aug 14, 2023

Test Period : Jun 15, 2023 to Aug 18, 2023



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(9) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2)	ND	0.1
(3/4/5)	ND	0.01
(6)	ND	0.01
(7)	ND	0.01
(8)	ND	0.01
(9/10/11)	ND	0.01
(12/13)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758)

## Tested Components:

- (1) White coating on metal (frame of folding chair).
- (2) Lacquer on wood (arms of folding chair).
- (3) Off white plastic (rod, round cap, adjusting hinge of frame, arms of folding chair).
- (4) White plastic (holder of arms, base pad of frame of folding chair).
- (5) Translucent white plastic (buckle of folding chair).
- (6) White hooked velcro (holder of cushion).
- (7) Dull white plastic (zipper puller of cooler bag of folding chair).
- (8) White plastic sheet (lining of cooler bag of folding chair).
- (9) Transparent ivory plastic (zipper teeth of cooler bag of folding chair).
- (10) Ivory foam (cushion).
- (11) White synthetic sheet (base of pocket).
- (12) White foam (inner part of cooler bag, strap) (internal).
- (13) Black plastic (inner part of back board of pocket) (internal).

Date sample received : Jun 15, 2023 and Aug 14, 2023

Test Period : Jun 15, 2023 to Aug 18, 2023



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(10) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)			Limit (ppm)
	(1/2)	(3/4/5)	(6/7/8)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	1
Benzo(e)pyrene	<0.20	<0.20	<0.20	1
Benzo(a)anthracene	<0.20	<0.20	<0.20	1
Chrysene	<0.20	<0.20	<0.20	1
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	1
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	1
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	1
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	1

Compound	Result (ppm)	Limit (ppm)
	(9/10/11)	
Benzo(a)pyrene	<0.20	1
Benzo(e)pyrene	<0.20	1
Benzo(a)anthracene	<0.20	1
Chrysene	<0.20	1
Benzo(b)fluoranthene	<0.20	1
Benzo(j)fluoranthene	<0.20	1
Benzo(k)fluoranthene	<0.20	1
Dibenzo(a,h)anthracene	<0.20	1

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) White coating on metal (frame of folding chair).
- (2) Lacquer on wood (arms of folding chair).
- (3) Off white plastic (rod, round cap, adjusting hinge of frame, arms of folding chair).
- (4) White plastic (holder of arms, base pad of frame of folding chair).
- (5) Translucent white plastic (buckle of folding chair).
- (6) White hooked velcro (holder of cushion).
- (7) Dull white plastic (zipper puller of cooler bag of folding chair).
- (8) White plastic sheet (lining of cooler bag of folding chair).



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- (9) Transparent ivory plastic (zipper teeth of cooler bag of folding chair).
- (10) Ivory foam (cushion).
- (11) White synthetic sheet (base of pocket).

Date sample received : Jun 15, 2023  
 Test Period : Jun 15, 2023 to Jun 26, 2023

(11) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)			Limit (ppm)
	(1/2)	(3/4/5)	(6/7/8)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	1
Benzo(e)pyrene	<0.20	<0.20	<0.20	1
Benzo(a)anthracene	<0.20	<0.20	<0.20	1
Chrysene	<0.20	<0.20	<0.20	1
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	1
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	1
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	1
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	1

Compound	Result (ppm)	Limit (ppm)
	(9/10/11)	
Benzo(a)pyrene	<0.20	1
Benzo(e)pyrene	<0.20	1
Benzo(a)anthracene	<0.20	1
Chrysene	<0.20	1
Benzo(b)fluoranthene	<0.20	1
Benzo(j)fluoranthene	<0.20	1
Benzo(k)fluoranthene	<0.20	1
Dibenzo(a,h)anthracene	<0.20	1



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The above limit was quoted according to REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

### Tested Components:

- (1) White coating on metal (frame of folding chair).
- (2) Lacquer on wood (arms of folding chair).
- (3) Off white plastic (rod, round cap, adjusting hinge of frame, arms of folding chair).
- (4) White plastic (holder of arms, base pad of frame of folding chair).
- (5) Translucent white plastic (buckle of folding chair).
- (6) White hooked velcro (holder of cushion).
- (7) Dull white plastic (zipper puller of cooler bag of folding chair).
- (8) White plastic sheet (lining of cooler bag of folding chair).
- (9) Transparent ivory plastic (zipper teeth of cooler bag of folding chair).
- (10) Ivory foam (cushion).
- (11) White synthetic sheet (base of pocket).

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Test Period : Jun 15, 2023 to Jun 26, 2023



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(12) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

EN ISO 14362-1 : 2017 for Textile Material

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm)	
			(1/2/3)	(4/5)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N



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Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)	
			(1/2/3)	(4/5)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N

N = Not detected  
 Detection limit = 5 ppm  
 Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg



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- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.
- The test component with p-aminoazobenzene less than detection limit was tested by EN ISO 14362-1 : 2017 for textile material / EN ISO 17234-1: 2015 for leather material.

Method T : Direct buffer extraction as per EN ISO 14362-1 : 2017 Section 10.2

Method D : Colourant extraction with Xylene as per EN ISO 14362-1 : 2017 Section 10.1

If both methods T and D conducted, final conclusion was based on the highest value of each amine.

### Tested Components:

- (1) White fabric with navy printing and with synthetic backing (body, pocket, cooler bag of folding chair).
- (2) Ivory woven with black printing (brand label).
- (3) White satin with navy printing (sewn-in label).
- (4) Pale pink webbing (strap, handle of folding chair).
- (5) Ivory fabric (zipper tape of cooler bag).

### Decision Rule:

∞ : In the case of levels per amine component is equal or smaller than 30 ppm:  
According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:  
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

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(13) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

BS EN ISO 14362-1 : 2017 for Textile Material

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm)	
			(1/2/3)	(4/5)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N



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Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)	
			(1/2/3)	(4/5)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N

N = Not detected  
 Detection limit = 5 ppm  
 Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg



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- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.
- The test component with p-aminoazobenzene less than detection limit was tested by BS EN ISO 14362-1 : 2017 for textile material / BS EN ISO 17234-1: 2015 for leather material.

Method T : Direct buffer extraction as per BS EN ISO 14362-1 : 2017 Section 10.2

Method D : Colourant extraction with Xylene as per BS EN ISO 14362-1 : 2017 Section 10.1

If both methods T and D conducted, final conclusion was based on the highest value of each amine.

### Tested Components:

- (1) White fabric with navy printing and with synthetic backing (body, pocket, cooler bag of folding chair).
- (2) Ivory woven with black printing (brand label).
- (3) White satin with navy printing (sewn-in label).
- (4) Pale pink webbing (strap, handle of folding chair).
- (5) Ivory fabric (zipper tape of cooler bag).

### Decision Rule:

- ∞ : In the case of levels per amine component is equal or smaller than 30 ppm:  
According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:  
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

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(14) Flammability Tests

Test Standard : U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

Result: Ignited but self-extinguished before burn rate could be determined.

Date sample received : Jun 15, 2023

Test Period : Jun 15, 2023 to Jun 21, 2023

(15) Mechanical and Physical Test

Test Standard : U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing : For Ages Over 6 Years

	<u>No. of sample tested</u>	<u>Sharp point (1500.48)</u>	<u>Sharp edge (1500.49)</u>	<u>Small part (1501)</u>
As Received	1	P	P	NA
Impact	1	P	P	NA
(1500.53(b))				
Flexure	0	NA	NA	NA
(1500.53(d))				
Torque	1	P	P	NA
(1500.53(e))				
Tension	1	P	P	NA
(1500.53(f))				
Compressio	1	P	P	NA
n				
(1500.53(g))				

Abbreviation : P= Pass NA = Not applicable

Date sample received : Jun 15, 2023

Test Period : Jun 15, 2023 to Jun 21, 2023



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End of report

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