

Schedule

GIC Testing & Inspection Services Pte Ltd
158 Kallang Way
#08-01 Performance Building
Singapore 349245

Certificate No. : LA-2019-0738-A

Issue No. : 8

Date : 19 April 2025

Certificate Expiry : 17 December 2027
Date

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FIELD OF TESTING: Chemical & Biological Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A Textiles / Toys / Children's Products / Furniture / Footwear / Jewelry / Stationery / Upholstery Materials / Surface Coating / Fabric / Leather / Metal / Paint / Paper / Wood / Coloured Materials / Plastics	1. Total Lead Content / Total Cadmium Content / Total Heavy Metals Content	• CPSC-CH-E1001-08.3 • CPSC-CH-E1002-08.3 • CPSC-CH-E1003-09.1 • ASTM F963-23 Section 8.3.1 • 16 CFR 1303 Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint • BS EN 1122: 2001 • ASTM F963-23 Section 4.3.5 See Appendix 1 (Informative) on the list of corresponding Specifications / Regulations.
	2. Extractable Lead and Cadmium Content	• CPSC-CH-E1004-11
	3. Migration of Certain Elements	• ASTM F963-23 Section 4.3.3.2 • BS EN 71-3: 2019+A2:2024 • ASTM F963-23 Section 8.3.2 to 8.3.4 • BS EN 14350: 2020 + A1:2023 Clause 5.2 • BS EN 1400: 2013 + A2: 2018 Clause 10.3.1 • ISO 8124-3: 2020 + A1: 2023 • AS/NZS ISO 8124.3: 2021 + A1: 2023 • ASTM F963-23 Section 4.3.5.2 (2)(b) See Appendix 2 (Informative) on the list of corresponding Specifications / Regulations.

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
	4. Phthalates Content	• CPSC-CH-C1001-09.4 • BS EN ISO 14389: 2022 • BS EN 14372: 2004 Section 6.3.2 • ISO 8124-6: 2023 • GB/T 22048-2022 • ISO 16181-1 & 2: 2021 See Appendix 3 (Informative) on the list of corresponding Specifications / Regulations.
	5. Polycyclic Aromatic Hydrocarbons Content	• BS ISO 21461:2012 • AfPS GS 2019:01 PAK Testing and Assessment of Polycyclic Aromatic Hydrocarbons See Appendix 4 (Informative) on the list of Specifications / Regulations.
B Textiles / Leather / Upholstery Materials	1. Formaldehyde Content	• BS EN ISO 14184-1: 2011 • AATCC 112-2020 • GB/T 2912.1-2009 • ASTM D6007: 2022 See Appendix 5 (Informative) on the list of corresponding Specifications / Regulations.
C Textiles / Apparel / Upholstery Materials	1. Colourfastness to Perspiration	• AATCC 15-21e • BS EN ISO 105-E04: 2013 • GB/T 3922-2013
	2. Colourfastness to Saliva	• DIN 53160: 2023
	3. Colourfastness to Water	• AATCC 107-22e • BS EN ISO 105-E01: 2013 • GB/T 5713-2013
	4. Colourfastness to Water Spotting	• BS EN ISO 105-E07: 2010
D Textiles / Upholstery Materials	1. pH	• AATCC 81-2022 • BS EN ISO 3071: 2020 • GB/T 7573-2009
E Products Intended To Come Into Direct Contact With Skin	1. Nickel Release	• BS EN 1811: 2023 • BS EN 12472: 2020 See Appendix 6 (Informative) on the list of corresponding Specifications / Regulations.

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
F Electrical & Electronic Products / Automotive	1. ROHS	• IEC 62321-1: 2013 • IEC 62321-2: 2021 • IEC 62321-4: 2017 • IEC 62321-5: 2013 • IEC 62321-6: 2015 • IEC 62321-7-1: 2015 • IEC 62321-7-2: 2017 • IEC 62321-8: 2017 See Appendix 7 (Informative) on the list of Specifications / Regulations:
G Food Contact Materials	1. Overall Migration 2. Specific Migration: a. Heavy Elements (Except Ammonium) b. Color Release c. Organic Matter (in terms of Potassium Permanganate Consumed)	• BS EN 1186-1: 2002 • BS EN 1186-2: 2022 • BS EN 1186-3: 2022 • DIN EN 1186-11: 2002 • DIN EN 1186-13: 2002 • BS EN 13130-1: 2004 See Appendix 8 (Informative) on the list of Specifications / Regulations. • BS EN 13130-1: 2004 See Appendix 9 (Informative) on the list of Specifications / Regulations • BS EN 13130-1: 2004 See Appendix 9 (Informative) on the list of Specifications / Regulations • BS EN 13130-1: 2004 See Appendix 9 (Informative) on the list of Specifications / Regulations • BS EN 13130-1: 2004
H Metals	1. Corrosion Resistance	• ASTM B117-19 • BS EN ISO 9227: 2022 + A1:2024

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Approved Signatories

S/N	Name	Scope
1.	Ms Chong Siew Mee Suzen	- For all accredited tests, except B1 basing on ASTM D6007
2.	Mr. Lau Wan Yin, Alex	- For all accredited tests.

Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.

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Appendix 1 (Informative)

List of Corresponding Specification/Regulations

Total Lead Content / Total Cadmium Content / Total Heavy Metals Content tests

- United States Code, 2009 Edition Title 15 – Commerce and Trade Chapter 30 – Hazardous Substance Sec. 1278a – Children's Product Containing lead; lead Paint Rule
- 16 CFR PART 1250—Safety Standard Mandating ASTM F963 For Toys
- CPSIA 2008 Section 101 Children's Products Containing Lead; Lead Paint Rule
- REACH Regulation (EC) No.1907/2006 Annex XVII Entry 23 and Entry 63
- Surface Coating Materials Regulations, SOR/2016-193 • Consumer Products Containing Lead Regulations, SOR/2018-83
- Products Containing Mercury Regulations SOR/2014-254 under Canadian Environment Protection Act, 1999. Section 2(e)
- Heavy Metals Content in Surface Coating - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Toys Regulations SOR/2011-17 with its Latest Amendment SOR/2022-122, Section 23
- Netherlands 1999 Cadmium Decree
- United Kingdom Environmental Protection (Controls on Injurious Substances (No. 2) Regulations 1993
- No. 1643 for cadmium content
- Swedish Ordinance SFS 1998: 944
- Heavy Metals Content in Packaging or Packaging Materials - United States Toxics in Packaging Clearinghouse (TPCH), Model Toxics in Packaging Legislation with Revisions up to July 2012
- California Health and Safety Code 25214.11- 25214.26 -“Toxics in Packaging Prevention Act” (TIPPA)
- New York State Hazardous Packaging Law Article 37 - Title II Hazardous Packaging
- European Directive 94/62/EC – Council Directive of 20 December 1994 on packaging and packaging waste

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Appendix 2 (Informative)

List of Corresponding Specification/Regulations

Migration of Certain Elements

- Toys Regulations, SOR/2011-17 Clause 23(b)
- 16 CFR PART 1250—Safety Standard Mandating ASTM F963 For Toys

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Appendix 3 (Informative)

List of Corresponding Specification/Regulations

Phthalates Content

- 16 CFR Part 1307 Prohibition of Children's Toys and Childcare Articles Containing Specified Phthalates
- 16 CFR PART 1250—Safety Standard Mandating ASTM F963 For Toys
- CPSIA 2008 Section 108 Prohibition

On Sale of Certain Products Containing Specified Phthalates

- REACH Regulation (EC) No1907/2006 Annex XVII Entry 51 and 52
- Directive 2005/84/EC
- Phthalates Regulations SOR/2016-188
- Ortho-Phthalate Content Packaging or Packaging Materials – United States Toxics in Packaging Clearinghouse (TPCH, Model Toxics in Packaging Legislation with Revisions up to February 2021)

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Appendix 4 (Informative)

List of Corresponding Specification/Regulations

Polycyclic Aromatic Hydrocarbons Content

- REACH Regulation (EC) No.1907/2006 Annex XVII Entry 50

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Appendix 5 (Informative)

List of Corresponding Specification/Regulations

Formaldehyde Content

- Formaldehyde Emission Standard from Composite Wood Products – EPA Toxic Substances Control Act (TSCA) Title VI, 40 CFR 770 / California Air Resources Board (CARB) PHASE II
- Formaldehyde Emission from Composite Wood Products Regulations SOR/2021-148 , amending regulation SOR/2024-256

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Appendix 6 (Informative)

List of Corresponding Specification/Regulations:

Nickel Release

- REACH Regulation (EC) No.1907/2006 Annex XVII Entry 27
- Regulation (EC) No. 552/2009

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Appendix 7 (Informative)

List of Corresponding Specification/Regulations

ROHS

- Directive 2011/65/EU
- Directive 2000/53/EC

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Appendix 8 (Informative)

List of Corresponding Specification/Regulations

Overall Migration

- Germany LFGB (LMBG) Food and Feed Law § 30, 31
- FDA 21 CFR 175.300
- FDA 21 CFR 177.1520
- FDA 21 CFR 177.1640
- FDA 21 CFR 177.2600
- Directive (EC) 1935/2004
- Regulation (EU) 10/2011
- TIS 656-2556
- MOPH Notification No. 435 B.E. 2022

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Appendix 9 (Informative)

List of Corresponding Specification/Regulations

Specific Migration:

a. Heavy Elements (Except Ammonium)

- Directive (EC) 1935/2004
- Regulation (EU) 10/2011
- TIS 656-2556
- MOPH Notification No. 435 B.E. 2022

b. Color Release

- Directive (EC) 1935/2004
- Regulation (EU) 10/2011
- TIS 656-2556
- TIS 655-2553 Part 1
- MOPH Notification No. 435 B.E. 2022

c. Organic Matter (in terms of Potassium Permanganate Consumed)

- JETRO Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents 2008 Section II, B-1
- Directive (EC) 1935/2004
- Regulation (EU) 10/2011
- TIS 656-2556
- MOPH Notification No. 435 B.E. 2022