

Schedule

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

Certificate No. : LA-2019-0739-G

Issue No. : 3

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FIELD OF TESTING : Mechanical Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A Textiles / Apparel / Upholstery Materials	1. Colourfastness to Crocking / Rubbing	AATCC 8-16 BS EN ISO 105-X12: 2016 GB/T 3920-2008
	2. Colourfastness to Laundering	AATCC 61-13 BS EN ISO 105-C06: 2010
	3. Dimensional Stability	AATCC 135-18 AATCC 150-18
	4. Drawstring Safety	ASTM F1816-18 BS EN 14682: 2014 16 CFR 1120.3(b)
	5. Flammability	16 CFR 1610 BS 5852: 2006 TB 117: 2013
	6. Resistance to Abrasion / Pilling	ASTM D4966-12 (2016) BS EN ISO 12947-1: 1998 BS EN ISO 12947-2: 2016 BS EN ISO 12947-3: 1999 BS EN ISO 12947-4: 1999 ASTM D3512 / D3512M-10 (2014) BS EN ISO 12945-2: 2000
	7. Tensile Strength	ASTM D5034-09 (2017) BS EN ISO 13934-1: 2013 BS EN ISO 13934-2: 2014

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B Rubber / Plastic / Metal - Coated Material	1. Abrasion Resistance	ASTM D4060-19 BS EN ISO 5470-1: 2016
C Toys	1. General Safety	ASTM F963-17 BS EN 71-1: 2014 + A1: 2018 ISO 8124-1: 2018 AS/NZS ISO 8124.1: 2019 SOR/2011-17 TIS 685 Part 1-2540 (1997) TIS 685 Part 2-2540 (1997) TIS 685 Part 3-2540 (1997)
	2. Material Quality	ASTM F963-17 Section 4.1 BS EN 71-1: 2014 + A1: 2018 Section 4.1 ISO 8124-1: 2018 Section 4.3.1 AS/NZS ISO 8124.1: 2019 Section 4.3.1 SOR/2011-17 Section 29 and 36
	3. Small Objects	ASTM F963-17 Section 4.6 16 CFR 1500.50 16 CFR 1501 BS EN 71-1: 2014 + A1: 2018 Section 5.1 and 8.2 ISO 8124-1: 2018 Section 4.4 and 5.2 AS/NZS ISO 8124.1: 2019 Section 4.4 and 5.2 SOR/2011-17 Section 7 and 30
	4. Accessible Edges	ASTM F963-17 Section 4.7 16 CFR 1500.49 BS EN 71-1: 2014 + A1: 2018 Section 4.7 and 8.11 ISO 8124-1:2-18 Section 4.6, 5.8 AS/NZS ISO 8124.1: 2019 Section 4.6 and 5.8 SOR/2011-17 Section 10 to 12
	5. Projections	ASTM F963-17 Section 4.8 BS EN 71-1: 2014 + A1: 2018 Section 4.9 ISO 8124-1: 2018 Section 4.8 AS/NZS ISO 8124.1: 2019 Section 4.8

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	6. Accessible Points	ASTM F963-17 Section 4.9 16 CFR 1500.48 BS EN 71-1: 2014 + A1: 2018 Section 4.5, 4.7, 4.8, 4.9, 5.1 and 8.12 ISO 8124-1: 2018 Section 4.7 and 5.9 AS/NZS ISO 8124.1: 2019 Section 4.7 and 5.9
	7. Wires or Rods	ASTM F963-17 Section 4.10 and 8.12 16 CFR 1500.51 – 53 (d) BS EN 71-1:2014 + A1: 2018 Section 4.8 and 8.13 ISO 8124-1: 2018 Section 4.9, 5.24.6 and 5.24.8 AS/NZS ISO 8124.1: 2019 Section 4.9, 5.24.6 and 5.24.8 SOR/2011-17 Section 8, 9
	8. Nails and Fasteners	ASTM F963-17 Section 4.11 SOR/2011-17 Section 13 and 28
	9. Plastic Film	ASTM F963-17 Section 4.12 and 8.22 BS EN 71-1: 2014 + A1: 2018 Section 6 and 8.25 ISO 8124-1: 2018 Section 4.10 and 5.10 AS/NZS ISO 8124.1: 2019 Section 4.10 and 5.10 SOR/2011-17 Section 4
	10. Folding Mechanisms and Hinges	ASTM F963-17 Section 4.13 and 8.26 ISO 8124-1: 2018 Section 4.12 and 5.22 AS/NZS ISO 8124.1: 2019 Section 4.12 and 5.22
	11. Cords, Straps, and Elastics	ASTM F963-17 Section 4.14, 8.23 BS EN 71-1:2014+A1:2018 Section 5.4, 5.14, 5.15, 8.20, 8.36, and 8.38 to 8.41 ISO 8124-1:2018 Section 4.11 and 5.11 AS/NZS ISO 8124.1: 2019 Section 4.11 and 5.11 SOR/2011-17 Section 41

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	12. Stability and Over-Load Requirements	ASTM F963-17 Section 4.15, 8.15, 8.21 and 8.28 BS EN 71-1: 2014 + A1: 2018 Section 4.15, 8.21 to 8.23, 8.26, 8.27 and 8.29 ISO 8124-1: 2018 Section 4.15 and 5.12 AS/NZS ISO 8124.1: 2019 Section 4.15 and 5.12 SOR/2011-17 Section 18
	13. Confined Spaces	ASTM F963-17 Section 4.16 BS EN 71-1: 2014 + A1: 2018 Section 4.14 and 8.31 ISO 8124-1: 2018 Section 4.16 and 5.13 AS/NZS ISO 8124.1: 2019 Section 4.16 and 5.13 SOR/2011-17 Section 17
	14. Wheels, Tires, and Axles	ASTM F963-17 Section 4.17
	15. Holes, Clearance, and Accessibility of Mechanisms	ASTM F963-17 Section 4.18 BS EN 71-1: 2014+A1:2018 Section 4.10 and 8.18 ISO 8124-1: 2018 Section 4.13 and 4.14 AS/NZS ISO 8124.1: 2019 Section 4.13 and 4.14 SOR/2011-17 Section 14 and 15
	16. Simulated Protective Devices	ASTM F963-17 Section 4.19 ISO 8124-1: 2018 Section 4.17 and 5.14 AS/NZS ISO 8124.1: 2019 Section 4.17 and 5.14
	17. Pacifiers	ASTM F963-17 Section 4.20 16 CFR 1511 ISO 8124-1: 2018 Section 4.5.5 AS/NZS ISO 8124.1: 2019 Section 4.5.5
	18. Teethers and Teething Toys	ASTM F963-17 Section 4.22 16 CFR 1510 BS EN 71-1: 2014 + A1: 2018 Section 5.8 and 8.16

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	19. Rattles	ASTM F963-17 Section 4.23 16 CFR 1510 BS EN 71-1: 2014 + A1: 2018 Section 5.8 and 8.16 ISO 8124-1: 2018 Section 4.5.1 and 5.3 AS/NZS ISO 8124.1: 2019 Section 4.5.1 and 5.3 SOR/2011-17 Section 40
	20. Squeeze Toys	ASTM F963-17 Section 4.24 16 CFR 1510 BS EN 71-1: 2014 + A1: 2018 Section 5.8 and 8.16 ISO 8124-1: 2018 Section 4.5.1 and 5.3 AS/NZS ISO 8124.1: 2019 Section 4.5.1 and 5.3
	21. Battery-Operated Toys	ASTM F963-17 Section 4.25
	22. Toys Intended to be Attached to a Crib or Playpen	ASTM F963-17 Section 4.26
	23. Stuffed and Beanbag-Type Toys	ASTM F963-17 Section 4.27
	24. Toy Gun Marking	ASTM F963-17 Section 4.30 ISO 8124-1: 2018 Annex D AS/NZS ISO 8124.1: 2019 Annex D
	25. Balloons	ASTM F963-17 Section 4.31 16 CFR 1500.19 BS EN 71-1: 2014 + A1: 2018 Section 4.12 ISO 8124-1: 2018 Section 4.5.6 AS/NZS ISO 8124.1: 2019 Section 4.5.6
	26. Certain Toys with Nearly Spherical Ends	ASTM F963-17 Section 4.32 BS EN 71-1: 2014 + A1: 2018 Section 5.11, 5.12 and 8.16 ISO 8124-1: 2018 Section 4.5.4 and 5.6 AS/NZS ISO 8124.1: 2019 Section 4.5.4 and 5.6

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	27. Marbles	ASTM F963-17 Section 4.33 16 CFR 1500.19 ISO 8124-1: 2018 Section 4.5.7 AS/NZS ISO 8124.1: 2019 Section 4.5.7
	28. Balls	ASTM F963-17 Section 4.34 16 CFR 1500.19 BS EN 71-1: 2014 + A1: 2018 Section 4.22, 5.10 and 8.32 ISO 8124-1: 2018 Section 4.5.2 and 5.4 AS/NZS ISO 8124.1: 2019 Section 4.5.2 and 5.4
	29. Pompoms	ASTM F963-17 Section 4.35 and 8.16 ISO 8124-1: 2018 Section 4.5.3 and 5.5 AS/NZS ISO 8124.1: 2019 Section 4.5.3 and 5.5
	30. Hemispheric-Shaped Objects	ASTM F963-17 Section 4.36 ISO 8124-1: 2018 Section 4.5.8 AS/NZS ISO 8124.1: 2019 Section 4.5.8
	31. Jaw Entrapment in Handles and Steering Wheels	ASTM F963-17 Section 4.39
	32. Expanding Materials	ASTM F963-17 Section 4.40 and 8.30 BS EN 71-1: 2014 + A1: 2018 Section 4.6 and 8.14 ISO 8124-1: 2018 Section 4.3.2 and 5.21 AS/NZS ISO 8124.1: 2019 Section 4.3.2 and 5.21
	33. Toy Chests	ASTM F963-17 Section 4.41 and 8.27
	34. Use and Abuse	ASTM F 963-17 Section 8.5 to 8.10 16 CFR 1500.50 – 53 BS EN 71-1: 2014 + A1: 2018 Section 8.3 to 8.9 ISO 8124-1: 2018 Section 4.1 to 4.2 and 5.24 AS/NZS ISO 8124.1: 2019 Section 4.1 to 4.2 and 5.24

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	35. Impact Test	ASTM F963-17 Section 8.7 16 CFR 1500.51 – 53 (b) BS EN 71-1: 2014 + A1: 2018 Section 8.5 to 8.7 ISO 8124-1: 2018 Clause 5.24.2 and 5.24.3 AS/NZS ISO 8124.1: 2019 Section 5.24.2 and 5.24.3
	36. Torque Test	ASTM F963-17 Section 8.8 16 CFR 1500.50 – 53 (e) BS EN 71-1: 2014 + A1: 2018 Section 8.3 ISO 8124-1: 2018 Clause 5.24.5 AS/NZS ISO 8124.1: 2019 Section 5.24.5
	37. Tension Test	ASTM F963-17 Section 8.9 16 CFR 1500.50 – 53 (f) BS EN 71-1: 2014 + A1: 2018 Section 8.4 ISO 8124-1: 2018 Section 5.24.6 AS/NZS ISO 8124.1: 2019 Section 5.24.6
	38. Compression Test	ASTM F963-17 Section 8.10 16 CFR 1500.50 – 53 (g) BS EN 71-1: 2014 + A1: 2018 Section 8.8 ISO 8124-1: 2018 Section 5.24.7 AS/NZS ISO 8124.1: 2019 Section 5.24.7
	39. Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	ASTM F963-17 Section 8.11
	40. Mouth-actuated Toys and Other Toys Intended to be Put in the Mouth	ASTM F963-17 Section 8.13 BS EN 71-1: 2014 + A1: 2018 Section 4.11 and 8.17 ISO 8124-1: 2018 Section 4.26 and 5.20 AS/NZS ISO 8124.1: 2019 Section 4.26 and 5.20
	41. Flexible Plastic Sheeting	BS EN 71-1: 2014 + A1: 2018 Section 4.3, 5.3 and 8.25

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	42. Toy Bags	BS EN 71-1: 2014 + A1: 2018 Section 4.4 and 4.14
	43. Glass	BS EN 71-1: 2014 + A1: 2018 Section 4.5 and 5.7
	44. Cords of Toy Kites and Other Flying Toys	BS EN 71-1: 2014 + A1: 2018 Section 4.13 and 8.19 ISO 8124-1: 2018 Section 4.11.11 and 5.11.6 AS/NZS ISO 8124.1: 2019 Section 4.11.11 and 5.11.6
	45. Toys Intended to Bear the Mass of a Child	BS EN 71-1: 2014 + A1: 2018 Section 4.15, 5.6, 8.21 to 8.23, 8.26, 8.27 and 8.29 ISO 8124-1: 2018 Section 4.21 to 4.23, 4.27, 4.30, 5.12, 5.16, 5.17, 5.26 to 5.28 and 5.30 AS/NZS ISO 8124.1: 2019 Section 4.21 to 4.23, 4.27, 4.30, 5.12, 5.16 5.17, 5.26 to 5.28 and 5.30
	46. Heavy Immobile Toys	BS EN 71-1: 2014 + A1: 2018 Section 4.16 and 8.23
	47. Aquatic Toys and Inflatable Toys	BS EN 71-1: 2014 + A1: 2018 Section 4.18 ISO 8124-1: 2018 Section 4.20 AS/NZS ISO 8124.1: 2019 Section 4.20
	48. Percussion Caps Specifically Designed for Use in Toys and Toys Using Percussion Caps	BS EN 71-1: 2014 + A1: 2018 Section 4.19 ISO 8124-1: 2018 Section 4.28 AS/NZS ISO 8124.1: 2019 Section 4.28
	49. Toys Containing a Non-electrical Heat Source	BS EN 71-1: 2014 + A1: 2018 Section 4.21 and 8.30
	50. Toys Attached to Food	BS EN 71-1: 2014 + A1: 2018 Section 4.25 and 8.32
	51. Toy Disguise Costumes	BS EN 71-1: 2014 + A1: 2018 Section 4.26 and 8.38

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	52. Flying Toys	BS EN 71-1: 2014 + A1: 2018 Section 4.27, 8.4 and 8.43 ISO 8124-1: 2018 Section 4.19 and 5.35 AS/NZS ISO 8124.1: 2019 Section 4.19 and 5.35
	53. Soft-filled Toys and Soft-filled Parts of a Toy	BS EN 71-1: 2014 + A1: 2018 Section 5.2
	54. Soaking Test	BS EN 71-1: 2014 + A1: 2018 Section 8.9
	55. Accessibility of a Part or Component	BS EN 71-1: 2014 + A1: 2018 Section 8.10 ISO 8124-1: 2018 Section 5.7 AS/NZS ISO 8124.1: 2019 Section 5.7
	56. Toys Containing a Heat Source	ISO 8124-1: 2018 Section 4.24 and 5.18 AS/NZS ISO 8124.1: 2019 Section 4.24 and 5.18
	57. Liquid-filled Toys	BS EN 71-1: 2014 + A1: 2018 Section 5.5, 8.15 ISO 8124-1: 2018 Section 4.25 and 5.19 AS/NZS ISO 8124.1: 2019 Section 4.25 and 5.19
	58. Toys Containing Monofilament Fibres	BS EN 71-1: 2014 + A1: 2018 Section 5.9
	59. Suction Cups	BS EN 71-1: 2014 + A1: 2018 Section 5.13 and 8.32
	60. Labeling Requirements	ASTM F963-17 Section 5 BS EN 71-1: 2014 + A1: 2018 Section 7 ISO 8124-1: 2018 Annex A and Annex B AS/NZS ISO 8124.1: 2019 Section Annex A and Annex B SOR/2011-17 Section 3
	61. Instructional Literature	ASTM F963-17 Section 6 BS EN 71-1: 2014 + A1: 2018 Section 4.2

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D Children's Furniture	62. Producer's Markings	ASTM F963-17 Section 7
	63. Flammability	ASTM F963-17 Section 4.2, Annex A5 and Annex A6 16 CFR 1500.3(c)(6)(vi) 16 CFR 1610 BS EN 71-2: 2011 + A1: 2014 ISO 8124-2: 2014 AS/NZS ISO 8124.2: 2016 SOR/2011-17 Section 32 to 34
	1. Bunk Beds Safety	ASTM F1427-21 16 CFR 1513 Requirements for Bunk Beds BS EN 747-1: 2012 + A1: 2015 BS EN 747-2: 2012 + A1: 2015
	2. Cots Safety	BS EN 716-1: 2017 BS EN 716-2: 2017
	3. Cribs Safety	ASTM F1169-19 16 CFR 1219 Safety Standard for Full-Size Baby Cribs
	4. Toddler Beds Safety	ASTM F1821-18 16 CFR 1217 Requirements for Toddler Beds
	5. Children Beds Safety	BS 8509: 2008 + A1: 2011
E General Furniture / Automotive	6. High Chairs Safety	ASTM F404-20 16 CFR 1231 Requirements for High Chairs
	7. Chairs and Stools Safety	ASTM F2613-21 16 CFR 1232 Requirements for Folding Chairs and Stools
	1. General Safety	BS EN 60065: 2014 + A11: 2017 Section 5 and 12 ANSI/BIFMA X5.6-2016
	2. Seating Safety	BS EN 1022: 2018 BS EN 12520: 2015 BS EN 16139: 2013 ANSI/BIFMA X5.4-2020
	3. Table Safety	BS EN 12521: 2015

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	4. Bed Safety	BS EN 1725: 1998
	5. Storage Furniture Safety	ASTM F2057-19 ASTM F3096-14 (2021) BS EN 14749: 2016
F Outdoor Furniture	1. Seating & Table Safety	BS EN 581-1: 2017 BS EN 581-2: 2015 BS EN 581-3: 2017
G Office Furniture	1. Seating Safety	BS EN 1335-1: 2020 BS EN 1335-2: 2018 ANSI/BIFMA X5.1-2017
	2. Storage Safety	ANSI/BIFMA X5.9-2019
	3. Table Safety	ANSI/BIFMA X5.5-2021
	4. Office Ergonomics	SS 514: 2016
	5. Ranked Seating	BS EN 12727: 2016 BS EN 15372: 2016
H Nonmetals	1. Exposure to Light	ASTM G154-16 BS EN ISO 4892-2: 2013 BS EN ISO 4892-3: 2006
I Medical / Surgical / Disposable Face Masks / Respiratory Devices	1. Differential Pressure	ASTM F2100-11 (Reapproved 2018) Section 9.2 MIL-M-36954C (1975) Paragraph 4.4.1.2
	2. Breathing Resistance	EN 149: 2001 + A1: 2009 Section 7.16 Section 5
	3. Breathability	BS EN 14683: 2019 Section 5.2.3, Annex C
	4. Resistance to Penetration by Synthetic Blood	ASTM F2100-11 (Reapproved 2018) Section 9.4 ASTM F1862/F1862M-17
	5. Splash Resistance	BS EN 14683: 2019 Section 5.2.4 ISO 22609: 2004
	6. Flammability	ASTM F2100-11 (Reapproved 2018) Section 9.5 16 CFR Part 1610

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	7. Sub-Micron Particulate Filtration	ASTM F2100-11 (Reapproved 2018) Section 9.3 ASTM F2299/ F2299M-03 (Reapproved 2017) ASTM F3502-21 Section 8.1 NIOSH TEB-APR-STP-0059 (13 December 2019) 42 CFR 84
	8 Airflow Resistance	ASTM F3502-21 Section 8.2

Approved Signatories

S/N	Name	Scope
1.	Ms Chong Siew Mee Suzen	- For all accredited tests.
2.	Mr Yap Kiat Keong Edmund	- For all accredited tests.

Note: