



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION AND TESTING

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I. Chemical

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Toys / Stationery	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	ASTM F-963-11 4.3.5, US Federal Food, Drug, and Cosmetic Act as amended through December, 31, 2004	Varian ICP-OES 720-ES
Toys / Stationery	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	BS EN71-3: 1995, BS 5665: part3 with Amendment No.1,1995 Safety of Toys --Part 3 Migration of certain elements ISO 8124-3:2010 AS/NZS ISO 8124.3-2012 GB 6675-2003+A1:2005, Clause 4.3 Safety of toys – Migration of certain elements GB 24613-2009, Limits of harmful substances of coatings for toys GB/T22753-2008, Technical requirement of surface coatings on toys GB21027-2007, Request in common use of security for student's articles	Varian ICP-OES 720-ES Varian AAS 240 Perkin Elmer ICP-MS ELAN 9000
Toys	Heavy Metals Pb, Cd, Hg, As, Ba, Cr, Sb, Se	Canadian Hazardous Products Act, R.S.C.H-3 Schedule I / Part I, Item 9:1998 and Canada Gazette Part II, May 4, 2005; Vol. 139, No. 9 (Hazardous Products Act – Surface Coating Materials) SOR2011-17	Varian ICP-OES 720-ES
Toys & children products	Total Pb & Hg Soluble Ba, As, Sb, Se and Cd	Canadian Product Safety Reference Manual Book 5 — Laboratory Policies and Procedures, part B: Test methods section – Method C02: 94 / C02.2: 2011 / C03: 2011 / C02.4: 2011 / C08: 2011	Varian ICP-OES 720-ES Varian AAS 240 Perkin Elmer ICP-MS ELAN 9000



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Consumables / Toys	Lead (Pb)	16 CFR1303:2013 ASTM E1645-01(2007) / ASTM E1613-2012 / GB/T22788-2008	Varian AAS 240 / Varian ICP-OES720-ES
Toys / Children products	Lead (Pb)	CPSC-CH-E1003-09.1:2011 CPSC-CH-E1002-08.3:2012 CPSC-CH-E1001-08.3:2012	Varian AAS 240 / Varian ICP-OES 720-ES
Leather	Hexavalent Chromium (Cr6+)	ISO 17075:2007 EN ISO 17075:2007 BS EN ISO 17075:2007 DIN EN ISO 17075:2008	Shimadzu UV-VIS 2450
Hazardous substances in polymeric materials & inorganic nonmetallic materials	Cd, Hg, Pb	US EPA 6010C: 2007 ICP-AES	Varian AAS 240/ Varian ICP-OES 720-ES
Hazardous substances in polymeric materials & inorganic nonmetallic materials	Hexavalent Chromium (Cr6+)	ISO 3613: 2010 Clause 5.6 EN ISO 3613:2010	Shimadzu UV-VIS 2450
Environmental hazardous substances in electronic and electrical products	Pb,, Cd, Hg, Cr & Br for non –metal material Pb and Cd for metal material(X-ray fluorescence spectrometry)	Testing methods for hazardous substances in electronic information products, Clause 5 SJ/T 11365 : 2006/ IEC 62321:2008 GB/T 26125-2011	Thermo NITON XL 3T700
Electrotechnical products	Pb, Hg, Cd, Cr6+	IEC 62321:2008 GB/T 26125-2011	Varian AAS 240/ Varian ICP-OES 720-ES Shimadzu UV-VIS 2450
Hazardous substance in Metallic materials	Lead (Pb)	US EPA 3050B: 1996 Acid digestion of sediments, sludges, and soils; US EPA 6010C: 2007 ICP-AES	Varian AAS 240 / Varian ICP-OES 720-ES

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Package / Package material	Heavy Metals Pb, Cd, Hg, Cr6+	Hasbro Global Quality Assurances— SRS-082 (B), 2/7/2012, Heavy metals requirements for packaging Mattel Quality and Safety Operation Procedure— QSOP 0006- 5000 (C), 12/04/2009, Environmental- Packaging Heavy Elements US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) / European Council Directive 2005/20/EC US EPA 3060A:1996 US EPA 7196A:1992	Varian ICP-OES 720-ES / Shimadzu UV-VIS 2450
Consumables	Cadmium (Cd)	Europe Annex XVII Items 23 of REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009, Directive 91/338/EEC of the European parliament and of the council on cadmium, Determination of cadmium in plastics – wet decomposition method, EN 1122: 2001, method B, BS EN 1122: 2001, method B, CPSC-CH-E1004-11:2011	Varian ICP-OES 720-ES / Varian AAS 240
Paper & Board / Wood / Wooden product / Textile / Fabric	Formaldehyde	BS EN 645:1994, BS EN 647:1994 BS EN 1541:2001, ISO 14184-1:2011 EN 120:1992, EN 717-3:1996 Mattel Quality and Safety Operation Procedure — QSOP 0006-3618 (F), 7/6/2010	Shimadzu UV-VIS 2450
Textile / Fabric	Formaldehyde	AATCC Test Method 112-2008	Shimadzu UV-VIS 2450
Wood / wooden product	Formaldehyde	ASTM D 5582-00(2006) ASTM D 6007-02(2008) GB/T 17657-2013 GB18580-2001	Shimadzu UV-VIS 2450 Simplewell 1 M3 Chamber
Textile / Fabric / Leather	Azo dye	EN 14362-1:2012 LFGB §64 BVL B 82.02-2 (2004) (Accredited only for GCMS method) LFGB § 64 BVL B 82.02-4 (2004) (Accredited only for GCMS method) GB/T 17592-2011 ISO/TS 17234-1:2010 ISO/TS 17234-2:2011	Agilent GC-MS 7890A / 5975C / Agilent GC-MS/MS 7890A / 7000B

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Toys	Phthalates (DBP, BBP, DEHP, DNOP, DIDP, DINP, DNHP, DIBP)	ASTM F963-11 4.3.8 CPSC-CH-C1001-09.3 ASTM D7083-04(2010)E1, ASTM D3421-1975/ EN 14372: 2004 Hasbro Global Quality Assurances SRS-046 (V), 10/25/2010, Plasticizers specification Mattel Quality and Safety Operation Procedure — QSOP 0006-3610 (AB), 12/6/2011, Plasticizers	Agilent GC-MS 7890A / 5975C / Agilent GC-MS/MS 7890A / 7000B/ Perkin Elmer GCMS Clarus 680/600
Toys / Consumer Product	Organic tin (MBT/DBT/TBT/TTBT/PT/MOT/ DOT/TcyT)	GB/T 20385-2006 DIN EN 17353:2005 / BS EN ISO 17353:2005 / ISO 17353:2004 / DIN 38407-13 / HJ 566-2010 Technical requirement for environment 111 th Congress 2D Session H.R.5820	Agilent GCMS 7890A/5975C
Leather / Textile	Chlorinated phenols	LFGB §64 BVL B 82.02.8-2001 / GB / T 18414.1-2006 ISO 17070:2006 DIN EN ISO 17070:2007 111 th CONGRESS 2D Session H.R.5820 91/179/EEC	Agilent GCMS 7890A/5975C
Indoor decorating and refurbishing materials	Benzene, Toluene, Xylene, Methanol, Ethyl benzene	GB18581:2009 Indoor decorating and refurbishing materials-- Limit of harmful substances of solvent coatings for woodenware GB 18583-2008 Indoor decorating and refurbishing materials-- Limit of harmful substances of adhesives 82/806/EEC 16 CFR 1500 – Hazardous substances and Articles; Administration and Enforcement / 16 CFR 1500.83-2013 111 th CONGRESS 2D Session H.R.5820	Agilent GC-FID 7890A / 5975C
Paper which contacts food	Soluble Extractives	21 CFR 176.170-2013	Preisa Electronic Balance XS 225A-SCS
Food contacted material and containers	Total extractant	Total extractant in resinous and polymeric coatings US FDA 21 CFR 175.300-2013	Preisa Electronic Balance XS 225A-SCS
Food contacted material and containers	Total extractant	Acrylonitrile copolymers and resins 21CFR181.32 -2013 21CFR180.22 -2013	Preisa Electronic Balance XS 225A-SCS
Food contacted material and containers	Total extractant	Total extractant in Closures with sealing gaskets for food containers US FDA 21 CFR 177.1210-2013	Preisa Electronic Balance XS 225A-SCS

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Food contacted material and containers	Total extractant	On rubber products intended to come into contact with foodstuffs Resolution ResAP(2004)4	Preisa Electronic Balance XS 225A-SCS
Plastic	Soluble Extractives / Sensory test	LFGB (LMBG) § 30, 31 1935/2004 2007/19/EC EU No.10/2011 EN 1186-1, 3, 5, 7, 9, 14-2002 DIN 10955:2004-06	Preisa Electronic Balance XS 225A-SCS / Oven HT-205
Ceramic ware	Leachable cadmium and lead	BS EN 1388 Part1:1996 BS EN 1388 Part2:1996 BS 6748:1986+A1:2011 ISO6486-1-1999 ISO6486-2-1999 Test procedures for compliance testing of US FDA Compliance Policy Guides7117.06(2012)&7117.07(2012) AOAC 973.32(2005) AOAC 973.82(2005) ASTM C738-94(2011) EU Council Directive 84/500/EEC EU Commission Directive 2005/31/EC Italy Decree of the Ministry of Health of 04-4-1995(GU No.120)	Varian AAS 240
Glassware	Leachable cadmium and lead	BS EN 1388 Part1:1996 BS EN 1388 Part2:1996 ISO6486-1-1999 ISO6486-2-1999 BS 6748:1986+A1:2011(R2005) Italy Official Gazette (G.U.) DMH 21 March 1973	Varian AAS 240
Glass tumblers	Leachable cadmium and lead	ASTM C927-80 (Reapproved 2009)	Varian AAS 240
Toys	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	Hasbro Global Quality Assurances - SRS-018 (A) 07/08/2013	Varian ICP-OES 720-ES / Varian AAS 240
Toys	Heavy Metals Pb, Cd, Hg, Cr, As, Se, Sb, Ba	Mattel Quality and Safety Operation Procedure QSOP 0006-3600(AB), 4/23/2013 Heavy metals	Varian ICP-OES 720-ES / Varian AAS 240
Toys / Consumer product	Nickel release	BS EN 12472:2005+A1:2009 EN 12472:2005+A1:2009 DIN EN 12472:2009 BS EN 1811: 2011 EN1811:2011, DIN EN 1811:2012 BS EN 16128: 2011	Varian ICP-OES 720-ES / Varian AAS 240

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Toys	Heavy element Migration content: Pb / Cd / Cr / Hg / Ba / As / Sb / Se / Al / B / Co / Mn / Ni / Sr / Sn / Zn / Cr3+ / Cr6+ / Organic tin	2009/48/EC EN71-3:2013	Varian ICP-OES 720-ES/ Varian AAS 240/ Perkin Elmer ICPMS ELAN9000/ Agilent GCMS 7890A/5975C
Consumer Products / Toys	Phthalates: DINP / DEHP / DBP / DIDP / DIBP / BBP / DNOP / DIOP / DMP / DNNP / DHP / DPP / DEP / DCHP / DPRP / DINA / DBZP	Denmark statutory order NO.151 of march15,1999 banning Phthalates in toys for children aged 0-3 and in certain childcare articles etc / EPA8061A:1996	Agilent GC-MS 7890A / 5975C / Agilent GC-MS/MS 7890A / 7000B/ Perkin Elmer GCMS Clarus 680/600
Textile	o-phenylphenol	GB/T 20386-2006	Agilent GC-MS 7890A / 5975C
Textile	4-aminoazobenzene	LFGB § 64 BVL B 82.02.9:2008 (Accredited only for GCMS method) / GB23344-2009 (Accredited only for GCMS method)	Agilent GC-MS 7890A / 5975C / Agilent GC-MS/MS 7890A / 7000B/ Perkin Elmer GCMS Clarus 680/600
Consumer Product / Electric Product	PBBs / PBDEs	IEC 62321: 2008 GB/T 26125-2011 EPA 3550C:2007 EPA 8270 D: 2007 GB/Z 21276:2007 SN/T 2005.2-2005 2011/65/EU 2.0	Agilent GC-MS 7890A / 5975C/ Perkin Elmer GCMS Clarus 680/600
Consumer Product	Acetophenone/ Formamide	EPA 8270 D: 2007 EPA 3510 C:1996	Agilent GC-MS 7890A / 5975C/ Perkin Elmer GCMS Clarus 680/600
Toys	Stuffing Materials	ASTM F963-11 4.3.7 Stuffed Toy Regulations of Pennsylvania-PA Code, Title 34, Chapter 47, Section 47.311-47.322	Perkin Elmer ICP-MS ELAN 9000/Varian AAS 240/Shimadzu UV-VIS 2450/Varian ICP-OES 720-ES/Microscope

II. Mechanical Testing

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Toys	Material Quality	ASTM F963-11 Section 4.1 EN 71-1:2011+ A2: 2013, Section 4.1 ISO 8124.1:2012 Section 4.3 AS/NZS ISO 8124.1:2013 Section 4.3 GB 6675-2003+A1:2005 Section A.4.3 SOR/2011-17 Section 29.	Visual
Toys	Small objects	ASTM F963-11 Section 4.6 EN 71-1:2011 +A2:2013 Section 5.1 (except for Soak Wash) and 8.2 ISO 8124.1:2012 Section 4.4 and 5.2 AS/NZS ISO 8124.1:2013 Sect 4.4 and 5.2 GB 6675-2003+A1:2005 Sect A.4.4 and A.5.2 SOR/2011-17 Sections 7 and 30 CPSC 16CFR 1501 SRS-001 (P) QSOP 0006-3040 (S)	Small parts cylinder HASBRO small part cylinder, Rigid metal disc, Force gauge
Toys	Accessible edges	ASTM F963-11 Section 4.7 EN 71-1:2011 +A2:2013 Section 4.7 and 8.10, 8.11 ISO 8124.1:2012 Section 4.6 and 5.7, 5.8 AS/NZS ISO 8124.1:2013 Section 4.6 and 5.7, 5.8 GB 6675-2003+A1:2005 Section A.4.6 and A.5.7, A.5.8 SOR/2011-17 Section 8 and 10 CPSC 16CFR 1500.49 SRS-003 (E) QSOP 0006-3010 (E) QSOP 0006-3030 (F)	Accessibility probe Sharp edge tester
Toys	Projections	ASTM F963-11 Section 4.8 EN 71-1:2011 +A2:2013 Section 4.9 ISO 8124.1:2012 Section 4.8 AS/NZS ISO 8124.1:2013 Section 4.8 GB 6675-2003+A1:2005 Section A.4.8 QSOP 0006-3035 (C)	Visual
Toys	Accessible points	ASTM F963-11 Section 4.9 EN 71-1:2011 +A2:2013 Section 4.8 and 8.10, 8.12 ISO 8124.1:2012 Section 4.7 and 5.7, 5.9 AS/NZS ISO 8124.1:2013 Section 4.7 and 5.7, 5.9 GB 6675-2003+A1:2005 Section A.4.7 and A.5.7, A.5.9. SOR/2011-17 Section 9 CPSC 16CFR 1500.48 SRS-002 (G) QSOP 0006-3010 (E) QSOP 0006-3020 (J)	Accessibility probe Sharp point tester

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Toys	Wires and rods	ASTM F963-11 Section 4.10 and 8.12 EN 71-1:2011 +A2:2013 Section 4.8 and 8.13 ISO 8124.1:2012 Section 4.9 and 5.24.8 AS/NZS ISO 8124.1:2013 Section 4.9 and 5.24.8 GB 6675-2003+A1:2005 Section A.4.9 and A.5.24.8 QSOP 0006-3100 (F)	Sharp point tester, Force gauge, Flexure tester
Toys	Nails and fasteners	ASTM F963-11 Section 4.11 SOR/2011-17 Section 13 and 28	Accessibility probe Small parts cylinder Sharp point tester Sharp edge tester
Toys	Plastic films	ASTM F963-11 Section 4.12 and 8.21 EN 71-1:2011 +A2:2013 Section 4.3, 5.3, 6. and 8.25 ISO 8124.1:2012 Section 4.10 and 5.10 AS/NZS ISO 8124.1:2013 Section 4.10 and 5.10 GB 6675-2003+A1:2005 Section A.4.10 and A.5.10 SOR/2011-17 Section 4 SRS-033 (M) QSOP 0006-3210 (K)	Micrometer, Steel ruler, Digital thickness gauge
Toys	Folding Mechanisms and Hinges	ASTM F963-11 Section 4.13 EN 71-1:2011 +A2:2013 Section 4.10.3 ISO 8124.1:2012 Section 4.12.3 AS/NZS ISO 8124.1:2013 Section 4.12.3 GB 6675-2003+A1:2005 Section A.4.12.3 SOR/2011-17 Section 14	Diameter rod
Toys	Cords, Straps and Elastics	ASTM F963-11 Section 4.14 and 8.22 EN 71-1:2011 +A2:2013 Section 5.4, 5.14, and 8.20, 8.36, 8.38, 8.39, 8.40 ISO 8124.1:2012 Section 4.11 (except for 4.11.7) and 5.11 (except for 5.11.3) AS/NZS ISO 8124.1:2013 Section 4.11 (except for 4.11.7) and 5.11 (except for 5.11.3) GB 6675-2003+A1:2005 Section A.4.11 (except for A.4.11.7) and A.5.11 (except for A.5.11.3) SOR/2011-17 Section 41	Steel ruler, Digital vernier caliper, Test blocks, Tension gauge, Hook test fixture, Head probe
Toys	Confined spaces	ASTM F963-11 Section 4.16 EN 71-1:2011 +A2:2013 Section 4.14 (except for 4.14.1c) GB 6675-2003+A1:2005 Section A.4.16 (except for A.4.16.2.2) SOR/2011-17 Section 17 SRS-106 (INITIAL)	Steel ruler, Digital vernier caliper Tension gauge



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Toys	Wheels, Tires and Axles	ASTM F963-11 Section 4.17 and 8.11	Wheel tension clamp Dead weight
Toys	Holes, Clearance, and Accessibility of Mechanisms	ASTM F963-11 Section 4.18 EN 71-1:2011 +A2:2013 Section 4.10.2 and 4.10.4 ISO 8124.1:2012 Section 4.13 and 4.14 AS/NZS ISO 8124.1:2013 Section 4.13 and 4.14 GB 6675-2003+A1:2005 Section A.4.13 and A.4.14 SOR/2011-17 Section 15. QSOP 0006-3189 (D)	Steel ruler, Digital vernier caliper, Diameter rod
Toys	Simulated Protective Devices	ASTM F963-11 Section 4.19 and 8.7 ISO 8124.1:2012 Section 4.17 and 5.14 AS/NZS ISO 8124.1:2013 Section 4.17 and 5.14 GB 6675-2003+A1:2005 Section A.4.17 and A.5.14 SRS-005 (N)	Impact test fixture
Toys	Projectile Toys	ASTM F963-11 Section 4.21 and 8.14 EN 71-1:2011+A2:2013 Section 4.17 and 8.24 ISO 8124.1:2012 Section 4.18 and 5.15 AS/NZS ISO 8124.1:2013 Section 4.18 and 5.15 GB 6675-2003+A1:2005 Section A.4.18 and A.5.15	Steel ruler, Digital vernier caliper, Kinetic Energy Tester Radius gauge
Toys	Teethers and Teething Toys	ASTM F963-11 Section 4.22 EN 71-1:2011 +A2:2013 Section 5.8 and 8.16 ISO 8124.1:2012 Section 4.5 and 5.3 AS/NZS ISO 8124.1:2013 Section 4.5 and 5.3 GB 6675-2003+A1:2005 Section A.4.5 and A.5.3 QSOP 0006-3050 (AG)	Rattle test fixture, Supplemental rattle test fixture
Toys	Rattles	ASTM F963-11 Section 4.23 EN 71-1:2011 +A2:2013 Section 5.8 and 8.16 ISO 8124.1:2012 Section 4.5 and 5.3 AS/NZS ISO 8124.1:2013 Section 4.5 and 5.3 GB 6675-2003+A1:2005 Section A.4.5 and A.5.3 SOR/2011-17 Section 40. QSOP 0006-3050 (AG)	Rattle test fixture, Supplemental rattle test fixture



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Toys	Squeeze toys	ASTM F963-11 Section 4.24 EN 71-1:2011 +A2:2013 Section 5.8 and 8.16 ISO 8124.1:2012 Section 4.5 and 5.3 AS/NZS ISO 8124.1:2013 Section 4.5 and 5.3 GB 6675-2003+A1:2005 Section A.4.5 and A.5.3 QSOP 0006-3050 (AG)	Rattle test fixture, Supplemental rattle test fixture
Toys	Battery-Operated Toys	ASTM F963-11 Section 4.25 (except for 4.25.10) GB 6675-2003+A1:2005 Annex A.A	Thermometer, Digital multimeter
Toys	Toys Intended to be Attached to a Crib or Playpen	ASTM F963-11 Section 4.26	Visual
Toys	Stuffed and Beanbag-Type Toys	ASTM F963-11 Section 4.27 EN 71-1:2011 +A2:2013 Section 5.2 and 8.4 SRS-007 (G) QSOP 0006-3070 (I)	Torque gauge, Tension gauge, Seam clamp
Toys	Stroller and Carriage Toys	ASTM F963-11 Section 4.28	Visual
Toys	Toy Gun Markings	ASTM F963-11 Section 4.30 ISO 8124.1:2012 Annex D AS/NZS ISO 8124.1:2013 Annex D GB 6675-2003+A1:2005 Section 4.1.28	Steel ruler, Digital vernier caliper
Toys	Balloons	ASTM F963-11 Section 4.31 EN 71-1:2011+A2:2013 Section 4.12 ISO 8124.1:2012 Section 4.5.6 AS/NZS ISO 8124.1:2013 Section 4.5.6 GB 6675-2003+A1:2005 Section A.4.5.6	Visual
Toys	Certain Toys with Nearly Spherical Ends	ASTM F963-11 Section 4.32 EN 71-1:2011 +A2:2013 Section 5.11 and 8.33 ISO 8124.1:2012 Section 4.5.4 and 5.6 AS/NZS ISO 8124.1:2013 Section 4.5.4 and 5.6 GB 6675-2003+A1:2005 Section A. 4.5.4 and A.5.6	Supplemental rattle test fixture
Toys	Marbles	ASTM F963-11 Section 4.33 ISO 8124.1:2012 Section 4.5.7 AS/NZS ISO 8124.1:2013 Section 4.5.7 GB 6675-2003+A1:2005 Section A.4.5.7 QSOP 0006-3040 (S)	Visual



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Toys	Balls	ASTM F963-11 Section 4.34 EN 71-1:2011 +A2:2013 Section 4.22 and 5.10, 8.32 ISO 8124.1:2012 Section 4.5.2 and 5.4 AS/NZS ISO 8124.1:2013 Section 4.5.2 and 5.4 GB 6675-2003+A1:2005 Section A.4.5.2 and A.5.4 SRS-001 (P) QSOP 0006-3050 (AG)	Small ball tester
Toys	Pompoms	ASTM F963-11 Section 4.35 and 8.16 ISO 8124.1:2012 Section 4.5.3 and 5.5 AS/NZS ISO 8124.1:2013 Section 4.5.3 and 5.5 GB 6675-2003+A1:2005 Section A.4.5.3 and A.5.5 SRS-001 (P) QSOP 0006-3050 (AG)	Small ball tester
Toys	Hemispheric-Shaped Objects	ASTM F963-11 Section 4.36 EN 71-1:2011+A2:2013 Section 5.12 ISO 8124.1:2012 Section 4.5.8 AS/NZS ISO 8124.1:2013 Section 4.5.8	Steel ruler, Digital vernier caliper, Electronic balance, Protractor
Toys	Magnets	ASTM F963-11 Section 4.38 and 8.24 EN 71-1:2011 +A2:2013 Section 4.23, 8.34 and 8.35 ISO 8124.1:2012 Section 4.30, 5.31, 5.32, 5.33 and 5.34 AS/NZS ISO 8124.1:2013 Section 4.30, 5.31, 5.32, 5.33 and 5.34 SRS-094 (F) QSOP 0006-3054 (I)	DC field gauss meter, axial probe, Digital vernier caliper, Steel ruler, Magnetic field viewing film
Toys	Jaw entrapment in handles and steering wheels	ASTM F963-11 Section 4.39	Gauge blocks, Visual



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Toys	Safety Labeling Requirements	ASTM F963-11 Section 5 EN 71-1:2011 +A2:2013 Section 7 ISO 8124.1:2012 Annex B AS/NZS ISO 8124.1:2013 Annex B GB 6675-2003+A1:2005 Annex A.C SOR/2011-17 Section 3. and 4. SRS-070 (R) SRS-101 (E) QSOP 0006-3500 (L) QSOP 0006-3501 (A) QSOP 0006-3510 (BF) QSOP 0006-3530 (AK) QSOP 0006-3539 (B) QSOP 0006-3549 (C) QSOP 0006-3568 (B) 2009/48/EC (Annex V Warnings)	Steel ruler, Digital vernier caliper, Visual
Toys	Instructional Literature	ASTM F963-11 Section 6.	Visual
Toys	Producer's Markings	ASTM F963-11 Section 7. EN 71-1:2011 +A2:2013 Section 7. ISO 8124.1:2012 Annex B AS/NZS ISO 8124.1:2013 Annex B GB 6675-2003+A1:2005 Annex A.C	Visual
Toys	Normal use, Torque, Tension, Impact, Drop, Tumble test, Tip over test Compression, Flexure Bite	ASTM F963-11 Section 8.1, 8.5-8.10, 8.12 EN 71-1:2011 +A2:2013 Section 8.1 and 8.3-8.8 ISO 8124.1:2012 Section 4.1, 4.2 and 5.1, 5.24.1, 5.24.2, 5.24.3, 5.24.5-5.24.8 AS/NZS ISO 8124.1:2013 Section 4.1, 4.2 and 5.1, 5.24.1, 5.24.2, 5.24.3, 5.24.5-5.24.8 GB 6675-2003+A1:2005 Section A.4.1, A.4.2 and A.5.1, A.5.24.1, A.5.24.2, A.5.24.3, A.5.24.5-A.5.24.8 SRS-005 (N) (except for eye impact test) SRS-006 (G) SRS-007 (G) SRS-008 (G) QSOP 0006-3060 (H) QSOP 0006-3070 (I) QSOP 0006-3100 (F) QSOP 0006-3110 (H) QSOP 0006-3120 (H) QSOP 0006-3130 (F) CPSC 16CFR 1500.50, 1500.51, 1500.52, 1500.53	Torque gauge, Tension gauge, Drop test floor, Tumble test step, Impact test fixture Compression test disk Flexure test fixture Bite tester
Toys	Assembly	EN 71-1:2011 +A2:2013 Section 4.2	Visual

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Toys	Toy bags	EN 71-1:2011 +A2:2013 Section 4.4	Steel ruler, Digital vernier caliper
Toys	Glass	EN 71-1:2011 +A2:2013 Section 4.5 and 5.7 SOR/2011-17 Section 12.	Accessibility probe Sharp point tester, Sharp edge tester
Toys	Expanding materials	EN 71-1:2011+A2:2013 Section 4.6 and 8.14 ISO 8124.1:2012 Section 4.3.2 and 5.21 AS/NZS ISO 8124.1:2013, Section 4.3.2 and 5.21 GB 6675-2003+A1:2005, Section A.4.3.2 and A.5.21	Small parts cylinder Digital vernier caliper, Thermometer
Toys	Aquatic toys and inflatable toys	EN 71-1:2011 +A2:2013 Section 4.18 and 8.3 and 8.4 (except for EN-15649-3) ISO 8124.1:2012 Section 4.19 AS/NZS ISO 8124.1:2013 Section 4.19 GB 6675-2003+A1:2005 Section A.4.19	Torque gauge, Tension gauge, Digital vernier caliper
Toys	Soaking test	EN 71-1:2011 +A2:2013 Section 4.23 and 8.9 ISO 8124.1:2012 Section 4.30 and 5.34 AS/NZS ISO 8124.1:2013, Section 4.30 and 5.34 QSOP 0006-3052 (B)	Thermometer Stopwatch
Toys	Toys attached to food	EN 71-1:2011 +A2:2013 Section 4.25	Torque gauge, Tension gauge, Drop test floor, Compression test disk Small parts cylinder, Small ball tester
Toys	Toys comprising Monofilament Fibers	EN 71-1:2011 +A2:2013 Section 5.9	Steel ruler
Toys	Suction cups	EN 71-1:2011 +A2:2013 Section 5.13 and 8.32	Small ball tester
Toys	Age-grading guidelines	ISO 8124.1:2012 Annex A AS/NZS ISO 8124.1:2013 Annex A GB 6675-2003+A1:2005 Annex A.B	Visual
Toys	Wood	ASTM F963-11 Section 4.9.3 ISO 8124.1:2012 Section 4.7.3 AS/NZS ISO 8124.1:2013 Section 4.7.3 GB 6675-2003+A1:2005 Section A.4.7.3 SOR/2011-17 Section 11	Visual
Toys	Projectile components	SOR/2011-17 Section 16	Tension gauge

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Toys	Stability	SOR/2011-17 Section 18.	Visual
Toys	Plant seeds - noise	SOR/2011-17 Section 35.	Visual
Toys	Plant seeds - stuffing materials	SOR/2011-17 Section 36.	Visual
Toys	Shaft-like handles	SOR/2011-17 Section 37.	Digital vernier caliper, Tension gauge
Toys	Water-based paints	SOR/2011-17 Section 39.	Visual
Toys	Battery - leakage	SOR/2011-17 Section 43	Vibration test machine, Drop test floor
Toys	Children's Products Containing Lead; Interpretative Rule on Inaccessible Component Parts	CPSC 16CFR 1500.87	Accessibility probes
Toys	Flammability	ASTM F963-11 Section 4.2 (excluding dry cleaning) US CPSC 16 CFR 1500.44 US CPSC 16 CFR 1610 (excluding dry cleaning) EN 71-2:2011 (except for soak wash) ISO 8124-2:2007 AS/NZS ISO 8124.2:2009 GB 6675-2003+A1:2005 Annex B (Except for: tests for highly flammable solids and liquids, flammable gases, liquids and gels) SOR/2011-17 Section 21, 32, 33 and 34 SRS-013 (L) QSOP 0006-3300 (K) (except for 3.4.2)	Flammability apparatus, Specimen holder, Fume hood, Flammability test fixture, Stopwatch, Steel ruler
Children's sleepwear	Flammability	CPSC 16 CFR 1615 CPSC 16 CFR 1616	Flammability apparatus, Specimen holder, Fume hood, Steel ruler



ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Wearing apparel	Flammability	CPSC 16CFR 1611	Flammability apparatus, Specimen holder, Fume hood, Stopwatch, Steel ruler
Consumables/Toys	Transportation test	ISTA 1A:2001 SRS-010 (D) QSOP 0006-4350 (D) Hallmark P.E. Document #1301 (2004-5-14)	Vibration Test machine, Carton drop test machine, Drop test floor
Consumables/Toys	Corrugated fiberboard- Determination of bursting strength	GB/T 6545-1998 TAPPI T810 OM-2011	Electro_Burst Strength Tester
Toys	Temperature Conditioning Test	SRS-011(E)	Environmental chamber
Toys	Humidity Test	SRS-024 (F) QSOP 0006-4410 (A)	Humidity Chamber
Toys	Surface Coating Adhesion	SRS-029(E) QSOP 0006-4030 (D)	Tape 3M 810#, Tape 3M 893#
Toys	Surface Coating Abrasion	SRS-032(C) QSOP 0006-4050 (B)	Eberhard Faber (#400) Taber Industries Wearaser # CS-8
Toys	Tracking Labeling- Date Coding	SRS-034 (D) QSOP 0006-3598 (O)	Visual
Toys	Aging Test	SRS-043 (E) QSOP 0006-4400 (C)	Aging Chamber
Toys	Bond / Weld Analysis	SRS-050 (B)	Visual
Toys	Euro-Specific Requirement	SRS-081 (A) (Except for: 4.2.1, 4.3, 4.5 to 4.10, 4.12)	Small part cylinder, Steel ruler, Digital vernier caliper Tension gauge,
Consumables/Toys	Freeze-Thaw Test	SRS-095 (A) Hallmark Quality Test Details FT01FR	Environmental chamber
Toys	Gameboards	STI-201 (F)	Environmental chamber, Steel ruler
Toys	Dice	STI-203 (B)	Dice shake machine

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Toys	Lithographic Labelled Board	STI-204 (B)	Environmental chamber
Toys	Sand Timers	STI-205(D)	Tension gauge
Toys	Card Decks	STI-208 (A)	Pre-condition Chamber, Steel ruler
Toys	Wood boxes	STI-303 (A)	Environmental chamber, Impact Medium
Toys	Aesthetic Guidelines for Molded Plastic Parts	STI-401 (D)	Visual
Toys	Vacuum Formed Trays	STI-402 (C)	Environmental chamber, Impact Medium
Toys	Master Cartons	STI-503 (B)	Vibration test machine
Toys	Package safety	QSOP 0006-3056(I) (Except for: 3.4.2, 3.4.3)	Tension tester
Toys	Label Adhesion	QSOP0006-4020 (D)	Adhesive Tape (3M #810)
Toys	Package Integrity	QSOP0006-4300 (J)	Steel ruler, Tension gauge
Consumables/Toys	Bar Code Testing	QSOP0006-4340 (H) QSOP0006-4341 (J) Hallmark Testing UPC manual (2007-1-17)	Bar code scanner
Toys	Master Carton Compression test	QSOP0006-4360 (C)	Compression tester
Toys	Master Carton Stability	QSOP0006-4361 (B)	Steel ruler, Stability Gauge
Toys	Master Carton on Flap Alignment	QSOP0006-4362 (PR)	Steel ruler, Visual

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Consumables / Toys	Fade (Seasonal 2D products/paper, 36 kj)	Hallmark Quality Test Details FA01FR	Fade Resistance tester ATLAS CPS+
Consumables / Toys	Age Test (10 days, 120 deg F, 80% R.H.)	Hallmark Quality Test Details AC04FR	Humidity Chamber
Consumables / Toys	Age Test (5 days, 120 deg F, 80% R.H.)	Hallmark Quality Test Details AC07FR	Humidity Chamber
Consumables / Toys	Bleed (paper)	Hallmark Quality Test Details BL02FR	Stopwatch
Consumables / Toys	Rub (printed inks, dry)	Hallmark Quality Test Details RR01FR	Rub-off tester Sutherland
Consumables / Toys	Rub (printed inks, wet)	Hallmark Quality Test Details RR05FR	Rub-off tester Sutherland
Consumables / Toys	Bleed (non-paper)	Hallmark Quality Test Details BL01FR	Stopwatch, Visual

III. Dimensional Calibration

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Calipers	Up to 200 mm	17 µm	Gauge Blocks Grade 2	JJG30-2012
Micrometer	Up to 25.4 mm	1.7 µm	Gauge Blocks Grade 2	JJG21-2008
Steel Ruler	Up to 1200 mm	80 µm	Standard Rule Feeler Gauge Measuring Microscopes	JJG1-1999

IV. Mechanical Calibration

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(\pm)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Electronic Balances	Up to 7.5 kg	16 mg	Class F1 Weights	JJG1036-2008
Digital Indicating Weighing Instrument	Up to 150 kg	5g	Class M1 Weights	JJG539-97

V. Time & Frequency Calibration

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(\pm)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Stopwatch	Up to 36 000 s	0.2 s	Time Synthesizer	JJG237-2010

Notes:

1. * = As Applicable
2. Calibration and Measurement Capabilities (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$
3. This scope is part of and must be included with the Certificate of Accreditation No. ACT-1399



Vice President