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優力勝邦檢測服務(香港)有限公司

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ACCREDITED TEST CATEGORY **認可測試類別**	:	Chemical Testing 化學測試 Food 食品 Physical and Mechanical Testing 物理及機械測試 Textiles and Garments 紡織品及成衣 Toys and Children's Products 玩具及兒童產品

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Chemical Testing 化學測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Plastics	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test procedures for compliance testing:-* EN 1122: 2001 Method B (wet decomposition)
Paints	Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test procedures for compliance testing:-* In House Method 211-AT-S0027 (by ICP-OES)
Leather 皮革	Free formaldehyde content 游離水解甲醛含量	GB/T 19941-2005 **<*Excluding the following*>** Cl. 4 ISO 17226-2:2008 + Corr. 1: 2009
	Chromium (VI)	EN ISO 17075-1: 2017

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Paint and other similar surface-coating materials (furniture articles for consumer use)	- Total lead content	US 16 CFR Part 1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Applied surface coating material of products for children, including furniture	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Applied surface coating material of pencils and artists' brushes	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* *Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Paint and similar surface coating materials	- Total lead content	In House Method 211-AT-S0037 (by ICP-OES) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Total cadmium content	In House Method 211-AT-S0027 (by ICP-OES)

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Surface coating materials	- Total lead content	In-house method: 211-AT-S0031 (by ICP-MS)
	- Total mercury content	In-house method: 211-AT-S0031 (by ICP-MS)
Pencils, coloured pencils and graphic instruments 鉛筆、彩色鉛筆和繪圖用具	Migration of certain elements: - Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移: – 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	Australian Customs (Prohibited Imports) Regulations 1956, Schedule 2, Item 7 JIS S 6006: 2007 Cl. 6.1 (Table 4), 6.2 (Table 6), and 8.8 GB 8771-2007
Plasticized component	- Dibutyl Phthalate (DBP) - Di-(2-ethylhexyl) Phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DNOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional sample pre-screen using Infrared (IR) Spectrometry

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Products made from leather and textile products	Amine (Azo colourants): 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 2020/2096 *Test Procedure for compliance testing for leather products:* - EN ISO 17234-1: 2015 *Test Procedure for compliance testing for textile products :* - EN ISO 14362-1:2017
	4-aminoazobenzene	*Test Procedure for compliance testing for leather products:* - EN ISO 17234-2:2011 *Test Procedure for compliance testing for textile products :* - EN 14362-3:2017 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

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Chemical Testing 化學測試

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Products made from leather	Amine (Azo colourants):	
	1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline	ISO 17234-1:2015
	4-aminoazobenzene	EN ISO 17234-2:2011 ISO 17234-2:2011 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

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Products made from leather and fur 皮革和毛皮產品及其製品	Amine (Azo colourants) 芳香胺(偶氮染料) : 1) 4-氨基聯苯 (4-aminodiphenyl) 2) 聯苯胺 (benzidine) 3) 4-氯鄰甲苯胺 (4-chloro-o-toluidine) 4) 2-萘胺 (2-naphthylamine) 5) 鄰氨基偶氮甲苯 (2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯 (2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺 (3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'- diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚 (p-克利酊) (p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚 (4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚 (4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 20400-2006 clauses 5.1 & 6.1 *Test procedures for compliance testing:* GB/T 19942-2005 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

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Chemical Testing 化學測試		
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Textile products	Amine (Azo colourants): 1) 4-aminodiphenyl 2) benzidine 3) 4-chloro-o-toluidine 4) 2-naphthylamine 5) o-aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-chloroaniline 8) 4-methoxy-m-phenylenediamine 9) 4,4'-diaminodiphenylmethane 10) 3,3'-dichlorobenzidine 11) 3,3'-dimethoxybenzidine 12) 3,3'-dimethylbenzidine 13) 4,4'-methylene-di-o-toluidine 14) p-cresidine 15) 4,4'-methylene-bis-(2-chloro-aniline) 16) 4,4'-oxydianiline 17) 4,4'-thiodianiline 18) o-toluidine 19) 4-methyl-m-phenylenediamine 20) 2,4,5-trimethylaniline 21) 2-methoxyaniline 4-aminoazobenzene	EN ISO 14362-1:2017 ISO 24362-1: 2014 EN ISO 14362-3:2017 ISO 24362-3: 2014 Techniques used are GC-MSD and HPLC-DAD for all test methods listed above.

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Products made of textile 紡織品	Amine (Azo colourants) 芳香胺(偶氮染料) :	
	1) 4-氨基聯苯 (4-aminodiphenyl) 2) 聯苯胺 (benzidine) 3) 4-氯鄰甲苯胺 (4-chloro-o-toluidine) 4) 2-萘胺 (2-naphthylamine) 5) 鄰氨基偶氮甲苯 (2-aminoazotoluene) 6) 2-氨基-4-硝基甲苯 (2-amino-4-nitrotoluene) 7) 對氯苯胺(p-chloroaniline) 8) 2,4-二氨基苯甲醚(2,4-diaminoanisole) 9) 4,4'-二氨基二苯甲烷 (4,4'-diaminodiphenylmethane) 10) 3,3'-二氯聯苯胺 (3,3'-dichlorobenzidine) 11) 3,3'-二甲氧基聯苯胺 (3,3'-dimethoxybenzidine) 12) 3,3'-二甲基聯苯胺 (3,3'-dimethylbenzidine) 13) 3,3'-二甲基-4,4'二氨基二苯甲烷 (3,3'-dimethyl-4,4'- diaminodiphenylmethane) 14) 3-氨基對甲苯甲醚 (p-克利酊) (p-cresidine) 15) 4,4'-次甲基-雙-(2-氯苯胺) [4,4'-methylene-bis-(2-chloroaniline)] 16) 4,4'-二氨基二苯醚 (4,4'-oxydianiline) 17) 4,4'-二氨基二苯硫醚 (4,4'-thiodianiline) 18) 鄰甲苯胺(2-toluidine) 19) 2,4'-二氨基甲苯(2,4-toluylenediamine) 20) 2,4,5-三甲基苯胺(2,4,5-trimethylaniline) 21) 鄰甲基苯胺(鄰氨基苯甲醚)(2-anisidine) 22) 2,4-二甲基苯胺(2,4-xylidine) 23) 2,6-二甲基苯胺(2,6-xylidine)	GB 18401-2010 clauses 5.1 & 6.8 *Test procedures for compliance testing*: GB/T 17592-2011
	4-氨基偶氮苯 (4-aminoazobenzene)	GB 18401-2010 clauses 5.1 & 6.8 *Test procedures for compliance testing*: GB/T 23344-2009 Techniques used are GC-MSD and HPLC- DAD for all test methods listed above.

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Products intended to come into direct contact with skin and piercing parts	Release of nickel	EN 1811:2011+A1:2015 EN 12472: 2005 + A1: 2009 & EN 1811:2011+A1:2015
Products intended to come into direct contact with skin and piercing parts	Release of nickel	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test procedures for compliance testing:* EN 1811: 2023
Coated articles that come into direct and prolonged contact with the skin (excluding articles with an outer coating containing nickel and those which are inserted into pierced ears and other parts of the human body)		Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 *Test procedures for compliance testing:* EN 12472: 2020 & EN 1811: 2023
Jewellery 首飾	Release of nickel 鎳釋放量	GB/T 19719-2005 Determination of the release of nickel –Method of spectrometry GB/T 19719-2005 鎳釋放量的測定 – 光譜法 GB/T 28485-2012 Detection of nickel release – Method for simulation of wear and corrosion & GB/T 19719-2005 Determination of the release of nickel –Method of spectrometry GB/T 28485-2012 鎳釋放量的測定 – 磨損和腐蝕模擬法 & GB/T 19719-2005 鎳釋放量的測定 – 光譜法

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Food 食品		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Toxicological tests:-	Specifications and Standards for Foods, Food Additives, etc. Under the Japan Food Sanitation Act (Abstracts) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" & Ministry of Health and Welfare Notification No. 370, 1959 and Ministry of Health, Labour and Welfare Notification No. 336, 2010 *Test procedures for compliance testing:* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO 2008 (based on the tentative English translation publishedby JETRO, January 2009) – Part II
Food containers (glass, ceramic and enamel ware)	- Leachable Cadmium and Lead	Section D-1
Food containers (synthetic resin in general) ***<Excluding the following>*** Phenol resin, melamine resin and urea resin	- Consumption of potassium permanganate	Section B-1 & D2 (1) b (ii)
Food containers (synthetic resin in general)	- Heavy metals as lead - Lead, Cadmium	Section B-4 & D2 (1) b (i) Section B-9 & D-2 (1) a
Food containers (Phenol resin, melamine resin and urea resin, synthetic resin made from formaldehyde)	- Evaporation residues - Monomer tests (phenol, formaldehyde)	Section B-5 & D2 (2) a (i) <3> & D2 (2) b (i)<2> Section B-8 & D2 (2) a (i) <1> Section B-8 & D2 (2) a (i) <2>, D2 (2) b (i) <1>
Food containers (PVC)	- Evaporation residues - Dibutyltin compounds - Tricresyl phosphate - Vinyl chloride	Section B-5 & D-2 (2) c (ii) Section D-2 (2) c (i) <1> (with modifications) Section D-2 (2) c (i) <2> (with modifications) Section D-2 (2) c (i) <3> (with modifications)
Food containers (PE & PP)	- Evaporation residues	Section B-5 & D-2 (2) d(i)
Food containers (PS)	- Evaporation residues - Volatile substances	Section B-5 & D-2(2)e(ii) Section D-2 (2) e (i) (with modifications)

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	Toxicological tests:- (cont'd)	Specifications and Standards for Foods, Food Additives, etc. Under the Japan Food Sanitation Act (Abstracts) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" & Ministry of Health and Welfare Notification No. 370, 1959 and Ministry of Health, Labour and Welfare Notification No. 336, 2010 *Test procedures for compliance testing:* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO 2008 (based on the tentative English translation publishedby JETRO, January 2009) – Part II
Food containers (PVDC)	- Evaporation residues - Barium - Vinylidene chloride	Section B-5 & D-2(2) f (ii) Section B-9 & D-2 (2) f (i) <1> Section D-2 (2) f (i) <2> (with modifications)
Food containers (PET)	- Evaporation residues - Antimony - Germanium	Section B-5 & D-2 (2) g (i) <3> Section D-2 (2) g (i) <1> (with modifications) Section D-2 (2) g (i) <2> (with modifications)
Food containers (PMMA)	- Evaporation residues - Methyl methacrylate	Section B-5 & D-2 (2) h (i) <2> Section D-2 (2) h (i) <1> (with modifications)
Food containers (PA)	- Evaporation residues - Caprolactam	Section B-5 & D-2 (2) i (i) <2> Section D-2 (2) i (i) <1> (with modifications)
Food contacting materials (implements or containers / packages that contact with food fats and oils or fat-rich foods) made of polyvinyl chloride	- DEHP	Section A-7 & B-10 & in-house method 211-AT-S0069 (by GC-MS)

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	Toxicological tests:- (cont'd)	Specifications and Standards for Foods, Food Additives, etc. Under the Japan Food Sanitation Act (Abstracts) 2010, JETRO April 2011, Part IV "Apparatus, Containers / Packages" & Ministry of Health and Welfare Notification No. 370, 1959 and Ministry of Health, Labour and Welfare Notification No. 336, 2010 *Test procedures for compliance testing:*
Food contacting materials (implements and containers / packages) made of the following synthetic resins: formaldehyde, Polyvinyl chloride (PVC), Polyethylen (PE), Polypropylene (PP), Polystyrene (PS), Polyvinylidene Chloride (PVDC), Polyethylene Terephthalate (PET), Polymethyl Methacrylate (PMMA), Nylon (PA)	- Colors	In-house method: 211-AT-S0075 (by HPLC-DAD)

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Physical and Mechanical Testing 物理及機械測試

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metal finished products	Performance tests	
- Coated structure or article with dry film thickness up to 5.0 mils (125 μm)	- Adhesion measurement by tape test	ASTM D3359-09e2 Method B **< *Excluding the following* >** 12.1
- Coated structure or article with dry film thickness up to 120 μm	- Cross-cut test	BS EN ISO 2409: 2013 EN ISO 2409: 2013 ISO 2409: 2013 **< *Excluding the following* >** for the above three standards Cl. 5.2 and 5.3

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Textiles and Garments 紡織品及成衣		
ITEM TESTED OR MEASURED 測試或量度項目	**SPECIFIC TEST OR PROPERTY MEASURED** 特定測試或量度的特性	**SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED** 規範、標準方法或應用技術
	Care performance tests :-	
- General Textiles and Garments 一般紡織品及成衣	- Dimensional stability to washing	AATCC Test Method 135-2018t AATCC Test Method 150-2018t BS EN ISO 5077: 2008 EN ISO 5077: 2008 ISO 5077: 2007 (for the above three standards using the following standards for specimen treatment) BS EN ISO 6330: 2012 EN ISO 6330: 2012 ISO 6330: 2012
	- Preparation, marking and measuring for dimensional change tests	BS EN ISO 3759: 2011 EN ISO 3759: 2011 ISO 3759: 2011
	- Preparation, marking and measuring for dimensional change tests	GB/T 8628-2013
	- 測定尺寸變化的試驗中織物試樣和服裝的準備、標記及測量	GB/T 8628-2013
	- Wash and wear performance	AATCC Test Method 88B-2018te AATCC Test Method 88C-2018te AATCC Test Method 124-2018te AATCC Test Method 143-2018te ISO 7768: 2009 ISO 7769: 2009 ISO 7770: 2009
	- Skewness after washing	AATCC Test Method 179-2023
	- Spirality	BS ISO 16322-3: 2021 ISO 16322-2: 2021 ISO 16322-3: 2021

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	Chemical analysis :-	
- General Textiles and Garments	- Free formaldehyde content	EN ISO 14184-1: 2011 ISO 14184-1: 2011 JIS L 1041: 2011 Section 8.1
	- pH value (Textiles)	AATCC Test Method 81-2012 EN ISO 3071: 2006 ISO 3071: 2005
	- Released formaldehyde content	BS EN ISO 14184-2: 2011 EN ISO 14184-2: 2011 ISO 14184-2: 2011
- Leather	- Free formaldehyde content	BS EN ISO 17226-2: 2008 + Corr. 1 EN ISO 17226-2: 2008 + AC ISO 17226-2: 2008 with Corr. 1 IULTCS/IUC 19-2: 2008 with Corr. 1
	- Chromium (VI)	EN ISO 17075-1: 2017 ISO 17075-1: 2017

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	Colour fastness tests :-	
- General Textiles and Garments	- Bleaching (hypochlorite)	ISO 105-N01: 1993
	- Chlorinated water	AATCC Test Method 162-2011e2 BS EN ISO 105-E03: 2010 EN ISO 105-E03: 2010 ISO 105-E03: 2010
	- Dry cleaning	AATCC Test Method 132-2004e3(2013)e3 BS EN ISO 105-D01: 2010 EN ISO 105-D01: 2010 ISO 105-D01: 2010
	- Hot pressing	AATCC Test Method 133-2013 BS EN ISO 105-X11: 1996 EN ISO 105-X11: 1996 ISO 105-X11: 1994
	- Light	AATCC Test Method 16.3-2020 BS EN ISO 105-B02: 2014 EN ISO 105-B02: 2014 ISO 105-B02: 2014
	- Perspiration	AATCC Test Method 15-2021e ISO 105-E04: 2013 ***<Excluding the following>*** for the above two standards Instrument rating method BS EN ISO 105-E04: 2013 EN ISO 105-E04: 2013
	- Perspiration & light	AATCC Test Method 125-2013e2(2020)

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	Colour fastness tests :-	
- General Textiles and Garments	- Phenolic yellowing	BS EN ISO 105-X18: 2007 EN ISO 105-X18: 2007 ISO 105-X18: 2007
	- Rubbing/crocking	AATCC Test Method 8-2016e(2022)e AATCC Test Method 116-2018e(2022)e AATCC Test Method 165-1999e10(2021)e BS EN ISO 105-X12: 2016 EN ISO 105-X12: 2016 ISO 105-X12: 2016 BS EN ISO 105-X16: 2016 EN ISO 105-X16: 2016 ISO 105-X16: 2016
	- Saliva and Perspiration	DIN 53160: 2023-07 DIN 53160-1: 2010 DIN 53160-2: 2010
	- Seawater	AATCC Test Method 106-2013e3 BS EN ISO 105-E02: 2013 EN ISO 105-E02: 2013 ISO 105-E02: 2013
	- Spotting (water)	AATCC Test Method 104-2014e2 BS EN ISO 105-E07: 2010 EN ISO 105-E07: 2010 ISO 105-E07: 2010

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	Colour fastness tests :-	
- General Textiles and Garments	- Washing	AATCC Test Method 61-2013e(2020)e2 BS EN ISO 105-C06: 2010 EN ISO 105-C06: 2010 ISO 105-C06: 2010 BS EN ISO 105-C08: 2010 EN ISO 105-C08: 2010 ISO 105-C08: 2010 BS EN ISO 105-C09: 2003 with Amd. 1 + Amd. 2 EN ISO 105-C09: 2003 + A1 ISO 105-C09: 2001 + A1
	- Water	AATCC Test Method 107-2022e BS EN ISO 105-E01: 2013 EN ISO 105-E01: 2013 ISO 105-E01: 2013

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	Construction tests:	
- General Textiles and Garments	- Fabric weight	ASTM D3776/ D3776M-20(2025) BS EN 12127: 1998 EN 12127: 1997 ISO 3801: 1977
	- Fabric width	ASTM D3774-18(2024) BS EN 1773: 1997 EN 1773: 1996 ISO 22198: 2006
	- Threads per unit length, woven	ASTM D3775-17(2023) BS EN 1049-2: 1994 EN 1049-2: 1993 ISO 7211-2: 2024
	- Twist of yarn	ASTM D1423/D1423M-16 BS EN ISO 2061: 2015 EN ISO 2061: 2015 ISO 2061: 2015 BS ISO 7211-4: 1984 ISO 7211-4: 1984
	- Yarn liner density	ASTM D1059-01 BS ISO 7211-5: 2020 ISO 7211-5: 2020
	- Weft knit, stitch density	BS 5441: 1988 with Amd. 1
- Specific Products :-		
- Children’s upper outerwear	- Measurement of drawstrings	ASTM F1816 – 97 (2009) BS EN 14682: 2014 DIN EN 14682: 2015 EN 14682: 2014 US 16 CFR Part 1120

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	Fabric performance tests :-	
- General Textiles and Garments	- Abrasion resistance	
	a) Martindale tester	ASTM D4966-22 BS EN ISO 12947-1: 1998 with Corr. 1 EN ISO 12947-1: 1998 + AC ISO 12947-1: 1998 with Corr. 1 BS EN ISO 12947-3: 1998 with Corr. 1 EN ISO 12947-3: 1998 + AC ISO 12947-3: 1998 with Corr. 1 BS EN ISO 12947-4: 1998 with Corr. 1 EN ISO 12947-4: 1998 + AC ISO 12947-4: 1998 with Corr. 1 BS EN ISO 12947-2: 2016 DIN EN ISO 12947-2: 2017 EN ISO 12947-2: 2016 ISO 12947-2: 2016 ***<Excluding the following>*** for the above four standards Cl. 7.5.1
	b) Stoll flat abrasion tester	ASTM D3886-99 (2015)
	c) Flex abrasion tester	ASTM D3885-07a (2015)
	d) Taber abrasion tester	ASTM D3884-22
	- Absorbency of bleached textiles	AATCC Test Method 79-2010e2(2018)e3
	- Air permeability	ASTM D737-04 (2016) BS EN ISO 9237: 1996 DIN EN ISO 9237: 1995 EN ISO 9237: 1995 ISO 9237: 1995
	- Oil repellency	AATCC Test Method 118-2013

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	Fabric performance tests :-	
- General Textiles and Garments	- Pilling resistance	ASTM D3512/D3512M-22 ASTM D4970/D4970M-22 BS EN ISO 12945-1: 2001 with Corr. 1 EN ISO 12945-1: 2000 ISO 12945-1: 2000 SN EN ISO 12945-1: 2021 BS EN ISO 12945-2: 2020 EN ISO 12945-2: 2020 ISO 12945-2: 2000 SN EN ISO 12945-2: 2000
	- Soil release performance	AATCC Test Method 130-2018t
	- Water repellency (spray rating)	AATCC Test Method 22-2017e BS EN ISO 4920: 2012 EN ISO 4920: 2012 ISO 4920: 2012
	- Water resistance (Hydrostatic pressure)	AATCC Test Method 127-2017(2018)e Option 2 ISO 811: 2018
	- Water resistance (Rain test)	AATCC Test Method 35-2018e2
	- Water resistance (Impact Penetration)	AATCC Test Method 42-2017e
	- Water vapour permeability	BS 7209: 1990 App. B
	- Wrinkle Recovery (Recovery Angle Method)	AATCC Test Method 66-2017e2 Option 1 ISO 2313: 1972
	- Wrinkle Recovery (Appearance method)	AATCC Test Method 128-2017e ISO 9867: 2009

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	Fabric performance tests :-	
- General Textiles and Garments	- Solar UV Protective Properties	AATCC Test Method 183-2014 AS/NZS 4399: 1996 + A1 BS EN 13758-1: 2002 + Amd. 1 + Corr. 1 EN 13758-1: 2001 + A1 BS EN 13758-2: 2003 + Amd. 1 EN 13758-2: 2003 + A1

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	Flammability tests :-	
- General Textiles and Garments	45 degree angle test	US 16 CFR Part 1610 ASTM D1230-10 Canada Textile Flammability Regulations (SOR/2016-194), Item 3 using test method CAN/CGSB 4.2 No. 27.5-2008
- Specific Products :-		
- Bedding items	- 45 degree angle test	Canada Textile Flammability Regulations (SOR/2016-194), Item 4 using test method CAN/CGSB 4.2 No. 27.5-2008
- Carpet and rugs	- Method for determining the surface flammability when exposed to a methenamine tablet	US 16 CFR Parts 1630 and 1631
- Children's sleepwear	- Vertical test	US 16 CFR Parts 1615 and 1616 BS EN 14878: 2007 with Corr. 1 EN 14878: 2007 + AC BS EN 1103: 2005 EN 1103: 2005 BS EN ISO 6941: 2003 EN ISO 6941: 2003 ISO 6941: 2003
- Sleepwear	- Vertical test	BS 5722: 1984 BS 5438: 1976 Test 3
- Tight-fitting sleepwear	- 45 degree angle test	Canada Children's Sleepwear Regulations (SOR/2016-169), Item 2 using test method CAN/CGSB 4.2 No. 27.5-2008

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	Fibre analysis :-	
- General Textiles and Garments	- Fibre content (Qualitative method)	AATCC Test Method 20-2021 ***<Excluding the following>*** Refractive Index, Melting Point, Micro-FTIR, Density and Stain test and test for glass fibre
	- Fibre content (Quantitative method – mechanical separation and chemical analysis)	AATCC Test Method 20A-2021 ***<Excluding the following>*** Method No. 12.9 and 12.11 European Regulation (EU) No. 1007/2011 as amended by Commission Delegated Regulation (EU) No. 286/2012 ***<Excluding the following>*** Method Nos. 12, 15 and 16 ISO 1833-1: 2020 (Note: The above Part 1 standard should be used in conjunction with other parts of ISO 1833 for particular fibre mixtures) ISO 1833-2: 2020 ISO 1833-3: 2020 ISO 1833-4: 2017 ISO 1833-6: 2007 ISO 1833-7: 2017 ISO 1833-8: 2006 ISO 1833-9: 2019 ISO 1833-10: 2019 ISO 1833-11: 2017 ISO 1833-12: 2020 ISO 1833-13: 2019 ISO 1833-14: 2019 ISO 1833-16: 2019 ISO 1833-17: 2019 ISO 1833-18: 2020 ISO 1833-20: 2018

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	Fibre analysis :-	
- General Textiles and Garments	- Fibre content (Quantitative method – microscopic analysis)	AATCC Test Method 20A-2021 ***<Excluding the following>*** Method No. 14.3.1.2 and 14.3.2.2 BS EN ISO 17751-1: 2023 ISO 17751-1: 2023
	- Fibre diameter (Animal fibres, yarn and fabric only)	ASTM D2130-22 ISO 137: 2015

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	Strength tests :-	
- General Textiles and Garments	- Bursting strength	ASTM D3786/D3786M-18(2023) BS EN ISO 13938-1: 2019 EN ISO 13938-1: 2019 ISO 13938-1: 1999 BS EN ISO 13938-2: 2019 EN ISO 13938-2: 2019 ISO 13938-2: 1999
	- Pile retention	ASTM D4685-25
	- Seam slippage	ASTM D434-95 BS EN ISO 13936-1: 2004 EN ISO 13936-1: 2004 ISO 13936-1: 2004 BS EN ISO 13936-2: 2004 EN ISO 13936-2: 2004 ISO 13936-2: 2004
	- Seam strength	ASTM D1683/D1683M-22 BS EN ISO 13935-1: 2014 EN ISO 13935-1: 2014 ISO 13935-1: 2014 BS EN ISO 13935-2: 2014 EN ISO 13935-2: 2014 ISO 13935-2: 2014
	- Tensile strength	ASTM D5034-21(2025) ASTM D5035-11(2024) BS EN ISO 13934-1: 2013 EN ISO 13934-1: 2013 ISO 13934-1:2013 BS EN ISO 13934-2: 2014 EN ISO 13934-2: 2014 ISO 13934-2:2014

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	Strength tests :-	
- General Textiles and Garments	- Tearing strength	ASTM D1424-21 BS EN ISO 13937-1: 2000 EN ISO 13937-1: 2000 + AC ISO 13937-1: 2000 with Corr. 1
	- Tearing strength (Tongue method)	ASTM D2261-13(2024) BS EN ISO 13937-2: 2000 with Corr. 1 EN ISO 13937-2: 2000 ISO 13937-2: 2000
- Specific Products :- - Zippers	- Zipper strength	ASTM D2061-07 (2013) **<*Excluding the following*>** Resistance to Cushioned Compression of Sliders, Slider Deflection and Recovery

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Toys and Children's Products 玩具及兒童產品

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	Chemical tests :-	
Toys	- Cellulose nitrate	Canada Toys Regulations (SOR/2011-17), Section 21 UK Toys (Safety) Regulations SI 1367: 1974 Section 3 *Test procedures for compliance testing:* In-house method: 211-AT-S0032 (FTIR, diphenylamine test)
Textile materials for toys intended for children under three years old	Free formaldehyde content	EN 71-9: 2005 + A1:2007 clause 4.3.1 *Test procedures for compliance testing:* ISO 14184-1:2011 TCVN 6238-9:2010 clause 4.3.1 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Test procedures for compliance testing:* TCVN 7421-1:2004 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Textile materials for toys	Free formaldehyde content Released formaldehyde content	SNI ISO 14184-1:2015 (English version) SNI ISO 14184-2:2015 (English version)

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	Chemical tests :- (cont'd)	
Pacifiers, rattles and teethers made of PVC	- DEHP	ASTM F963-17 Cl. 4.3.8 *Test procedures for compliance testing:* ASTM D3421-75 (with modifications)
Plasticized component of toy (including pacifiers, rattles, and teethers) for children 12 years of age and younger	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	ASTM F963-23 Cl. 4.3.8 *Test procedures for compliance testing:* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Toys and child care articles	- Dibutyl Phthalate (DBP) - Diisobutyl Phthalate (DIBP) - Di-n-pentyl phthalate (DPENP) - Di-n-hexyl phthalate (DHEXP) - Dicyclohexyl phthalate (DCHP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-iso-nonyl phthalate (DINP)	16 CFR 1307.3 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.4 Standard Operating Procedure for Determination of Phthalates, January 17, 2018
Toys and child care articles composed of vinyl materials	- Di(2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Canada Phthalates Regulations (SOR/2010-298) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy

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	Chemical tests (cont'd) :-	
Products made of PE, PVC, PP, PS, ABS and polyamide	- Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Di-n-octyl phthalate (DNOP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - 鄰苯二甲酸二丁酯 (DBP) - 鄰苯二甲酸丁苄酯 (BBP) - 鄰苯二甲酸二(2-乙基)己酯 (DEHP) - 鄰苯二甲酸二正辛酯 (DNOP) - 鄰苯二甲酸二異壬酯 (DINP) - 鄰苯二甲酸二異癸酯 (DIDP)	GB 6675.1-2014, Cl. 5.3.7 *Test procedures for compliance testing:* CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional sample pre- screen using Infrared (IR) Spectrometry
Toys and children articles made of PE, PVC, PP, PS ABS and polyamide	- Dibutyl Phthalate (DBP) - Di-(2-ethylhexyl) Phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DNOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	CPSC Test Method: CPSC-CH-C1001-09.3 Standard Operating Procedure for Determination of Phthalates, April 1, 2010 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy
Toys and child care articles made of PVC	- Bis-(2-ethylhexyl) Phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl Phthalate (DNOP) - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP)	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 51/52 as amended by Commission Regulation (EC) No. 552/2009 *Test Procedure for compliance testing:* EN 14372: 2004, clauses 5.4.2.3 and 6.3.2 ***< Excluding the following >*** Gravimetric analysis
Child use and care articles - Cutlery and feeding utensils	- Bis-(2-ethylhexyl) Phthalate (DEHP) - Dibutyl Phthalate (DBP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl Phthalate (DNOP) - Diisononyl Phthalate (DINP) - Diisodecyl Phthalate (DIDP)	EN 14372: 2004, clauses 5.4.2.3 and 6.3.2 ***< Excluding the following >*** Gravimetric analysis

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Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys (surface coating material)	- Total lead content	Canada Toys Regulations (SOR/2011-17), Section 23 *Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Leachable arsenic, selenium, cadmium, antimony and barium	*Test procedures for compliance testing:-* Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C03 Determination of Leachable Arsenic, Selenium, Cadmium, Antimony and Barium in Applied Coatings (2014-02-20)
	- Total mercury content	*Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS)
Applied surface coating material of products for children,	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* *Test procedures for compliance testing:-* In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Applied surface coating material of pencils and artists' brushes	- Total lead content	Canada Surface Coating Materials Regulations (SOR/2016-193), *Section 6* Test procedures for compliance testing:- In-house method: 211-AT-S0031 (by ICP-MS) CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011

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	Chemical tests (cont'd) :-	
Consumer products that are brought into contact with the children's mouth in the course of normal use (other than kitchen utensils and a product that is subject to the *Glazed Ceramics and Glassware Regulations*), consumer products intended for use in learning or play by a child under 14 years of age, and book or similar printed product (made of vinyl, plastic or metal) that is intended for a child under 14 years of age ***<Excluding the following>*** clothing or clothing accessory, product facilitating relaxation, sleep, hygiene, carrying or transportation of a child	- Total lead content (metal components)	Canada Consumer Products Containing Lead Regulations (SOR/2018-83) in conjunction with Information for Regulated Parties Regarding the Consumer Product Containing Lead Regulation, January 26, 2022 *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Total lead content (non-metal components)	CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry

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	Chemical tests (cont'd):-	
Soft infant and toddler carrier (surface coating materials)	- Total lead content	ASTM F2236-16a Cl. 5.3 in conjunction with 16CFR1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 ASTM F2236-24 Cl. 5.3 in conjunction with 16CFR1303 *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-17 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1(2) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.2 – 8.3.4
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.1(1) & (2) *Test procedures for compliance testing:-* In house method 211-AT-S0027 (by ICP-OES)

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	Chemical tests (cont'd):-	
Toys – substrate materials (Accessible non-metallic toys or toy components that are small parts)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2(2)(b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2(2)(a) & (b) *Test procedures for compliance testing:-* In house method 211-AT-S0052 (by ICP-OES)

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	Chemical tests (cont'd) :-	
Toys – substrate materials (Accessible metallic toys or toy components that are small parts, excluding children's jewellery)	- Total lead content	ASTM F963-17 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2 (2)(b) *Test procedures for compliance testing:-* ASTM F963-17 Cl. 8.3.5.1, 8.3.5.2, 8.3.5.3 & 8.3.5.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-17 Cl. 4.3.5.2(2)(a) & (b) *Test procedures for compliance testing:-* In house method 211-AT-S0051 (by ICP-MS)
	- Extractable cadmium content	ASTM F963-17 Cl. 4.3.5.2(2)(c) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

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	Chemical tests (cont'd):-	
Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-23 Cl. 4.3.5.1 (1) *Test procedures for compliance testing:-* CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1(2) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.2 – 8.3.4
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.1(1) & (2) *Test procedures for compliance testing:-* In house method 211-AT-S0027 (by ICP-OES)
Toys – substrate materials (Accessible non-metallic toys or toy components that are small parts)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(b) & (c) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(a) & (b) & (c) *Test procedures for compliance testing for polymeric and plastic materials:-* In house method 211-AT-S0052 (by ICP-OES)

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	Chemical tests (cont'd):-	
Toys – substrate materials (Accessible metallic toys or toy components that are small parts, excluding children's jewellery)	- Total lead content	ASTM F963-23 Cl. 4.3.5.2 (2)(a) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
	- Soluble migrated elements: Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(b) *Test procedures for compliance testing:-* ASTM F963-23 Cl. 8.3.5.1, 8.3.5.2, 8.3.5.3 & 8.3.5.5
	- Total element content (screening) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-23 Cl. 4.3.5.2(2)(a) & (b) & (e) *Test procedures for compliance testing:-* In house method 211-AT-S0051 (by ICP-MS)
	- Extractable cadmium content	ASTM F963-23 Cl. 4.3.5.2(2)(d) *Test procedures for compliance testing:-* CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011

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Toys and Children's Products 玩具及兒童產品

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	Chemical tests (cont'd) :-	
Toys and other articles intended for use by children – paint and other similar surface-coating materials	- Total lead content	US Public Law 110-314 Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 *Test procedures for compliance testing:-* ASTM F2853-10e1 CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
Children's metal products	- Total lead content	US Public Law 110 -314 Consumer Product Safety Improvement Act 2008 *Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
Children's non-metal products	- Total lead content	*Test procedures for compliance testing*: CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry

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	Chemical tests (cont'd) :-	
All toys and children's products - Paint and similar surface coating materials	- Total lead content	CPSC Test method: CPSC-CH-E1003-09.1 Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011
	- Total cadmium content	In House Method 211-AT-S0027 (by ICP-OES)
Children's metal products	- Total lead content	CPSC Test Method: CPSC-CH-E1001-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry
Children's metal Jewelry	- Extractable cadmium content	CPSC Test Method: CPSC-CH-E1004-11 Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry, February 03, 2011
Children's non-metal products	- Total lead content	CPSC Test Method: CPSC-CH-E1002-08.3 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, Revision November 15, 2012 ***<Excluding the following>*** Identification and Quantification of Pb using XRF Spectrometry

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	Chemical tests (cont'd) :-	
All toys	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS/NZS ISO 8124.3: 2012 AS/NZS 8124.3: 2012 + A1: 2016 ISO 8124-3: 2010 + Amd.1:2014 MS ISO 8124-3: 2012 SNI ISO 8124-3:2010 (English version) TCVN 6238-3: 2011 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Toys 玩具	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	GB 6675.1-2014, Cl. 5.3.3 & 5.3.4 *Test procedures for compliance testing:* GB 6675.4-2014
	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	GB 6675.4-2014
Pencils, coloured pencils and graphic instruments 鉛筆、彩色鉛筆和繪圖用具	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium 特定元素的遷移 銻, 砷, 鋇, 鎘, 鉻, 鉛, 汞, 硒	Australian Customs (Prohibited Imports) Regulations 1956, Schedule 2, Item 7 JIS S 6006: 2007 Cl. 6.1 (Table 4), 6.2 (Table 6), and 8.8 GB 8771-2007

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	Chemical tests (cont'd) :-	
Finger paints	- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	AS 8124.7-2017 Cl. 4.4 and A.4 *Compliance test procedures for migration of elements:-* ISO 8124-3:2010
	- Migration of certain elements	BS EN 71-7: 2014 + A3: 2020 Cl. 4.4 *Compliance test procedures for migration of elements:-* BS EN 71-3: 2019 + A1: 2021
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Methyltin, Dimethyltin, Butyltin, Dibutyltin, Tributyltin, Tetrabutyltin, n-Octyl tin, Di-n-octyltin, Di-n-propyl tin, Diphenyltin, Triphenyltin	Annex G (GC-MS-MS)
	- Migration of certain elements	EN 71-7: 2014 + A3: 2020 Cl. 4.4 *Compliance test procedures for migration of elements:-* EN 71-3: 2019 + A1: 2021
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Methyltin, Dimethyltin, Butyltin, Dibutyltin, Tributyltin, Tetrabutyltin, n-Octyl tin, Di-n-octyltin, Di-n-propyl tin, Diphenyltin, Triphenyltin	Annex G (GC-MS-MS)

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	Chemical tests (cont'd) :-	
Finger paints	- Migration of certain elements	BS EN 71-7: 2014 + A3: 2020 Cl. 4.4 *Compliance test procedures for migration of elements:-* BS EN 71-3: 2019 + A2: 2024
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Methyltin, Dimethyltin, Butyltin, Dibutyltin, Tributyltin, Tetrabutyltin, n-Octyl tin, Di-n-octyltin, Di-n-propyl tin, Diphenyltin, Triphenyltin	Annex G (GC-MS-MS)
	- Migration of certain elements	EN 71-7: 2014 + A3: 2020 Cl. 4.4 *Compliance test procedures for migration of elements:-* EN 71-3: 2019 + A2: 2024
	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Methyltin, Dimethyltin, Butyltin, Dibutyltin, Tributyltin, Tetrabutyltin, n-Octyl tin, Di-n-octyltin, Di-n-propyl tin, Diphenyltin, Triphenyltin	Annex G (GC-MS-MS)

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Toys and Children's Products 玩具及兒童產品

ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A1: 2021 EN 71-3: 2019 + A1: 2021
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)
Category II toy materials: Liquid or sticky materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)

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	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A1: 2021 EN 71-3: 2019 + A1: 2021
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)
	Chromium (for screening for Cr(VI))	Alternative method as documented in 211-AT-S0141 (ICP-MS)
Category III toy materials: Scraped-off materials ***<Excluding the following>*** Paper and paperboard	Tin (for screening for organic tin)	Alternative method as documented in 211-AT-S0141 (ICP-MS)
Category III toy materials: Scraped-off materials from tinplated or tin base material	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Alternative method as documented in 211-AT-S0142 (GC-MS-MS)

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	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A2: 2024 EN 71-3: 2019 + A2: 2024
Category I toy materials: Dry, brittle, powder like or pliable materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)
Category II toy materials: Liquid or sticky materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
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	Chemical tests (cont'd) :-	
Toys	- Migration of certain elements	BS EN 71-3: 2019 + A2: 2024 EN 71-3: 2019 + A2: 2024
Category III toy materials: Scraped-off materials	Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc	Annex E (ICP-MS)
	Chromium (VI) Chromium (III) (by calculation)	Annex F (LC-ICP-MS)
	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Annex G (GC-MS-MS)
	Chromium (for screening for Cr(VI))	Alternative method as documented in 211-AT-S0164 (ICP-MS)
Category III toy materials: Scraped-off materials ***<Excluding the following>*** Paper and paperboard	Tin (for screening for organic tin)	Alternative method as documented in 211-AT-S0164 (ICP-MS)
Category III toy materials: Scraped-off materials from tinplated or tin base material	Organic Tin: Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin	Alternative method as documented in 211-AT-S0142 (GC-MS-MS)

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	Chemical tests (cont'd) :-	
Textiles, leather, wood, paper, aqueous liquids, solid toy materials intended to leave a trace, modelling clay, balloon- making compounds and imitation tattoos with adhesive	Primary aromatic amines: - Benzidine - Aniline - 2-naphthylamine - 3,3'-dichlorobenzidine - 3,3'-dimethoxybenzidine - 3,3'-dimethylbenzidine - o-toluidine - o-anisidine - 4-chloroaniline	EN 71-9: 2005 + A1:2007 Table 2C *Sample Preparation:-* EN 71-10: 2005 Clause 8.1.2, 8.1.4, 8.2.2, 8.3.2, 8.4.2, 8.5.2, 8.6.2, 8.7.2, 8.8.2, 8.9.2 *Test procedures for compliance testing:-* EN71-10:2005 Annex A EN 71-11: 2005 Clause 5.4 TCVN 6238-9:2010 Table 2C (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Sample Preparation:-* TCVN 6238-10:2010 Clause 8.1.2, 8.1.4, 8.2.2, 8.3.2, 8.4.2, 8.5.2, 8.6.2, 8.7.2, 8.8.2, 8.9.2 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Test procedures for compliance testing:-* TCVN 6238-10:2010 Annex A TCVN 6238-11:2010 Clause 5.4 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Polymeric materials	Migration of plasticisers: - Triphenyl phosphate - Tri-o-cresyl phosphate (tri-o-toyl phosphate) - Tri-m-cresyl phosphate (tri-m-toyl phosphate) - Tri-p-cresyl phosphate (tri-p-toyl phosphate)	EN 71-9: 2005 + A1: 2007 Table 2I *Sample Preparation:* EN 71-10: 2005 Clause 6 *Test procedures for compliance testing:* EN 71-11: 2005 Clause 5.8 TCVN 6238-9:2010 Table 2I (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Sample Preparation:* TCVN 6238-10:2010 Clause 6 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) *Test procedures for compliance testing:* TCVN 6238-11:2010 Clause 5.8 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)

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	Chemical tests (cont'd):-	
Plastics	- Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test Procedures for Compliance testing:* EN 1122: 2001 Method B (wet decomposition)
Paints	- Cadmium content	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. 494/2011 *Test Procedures for Compliance testing:* In House Method 211-AT-S0027 (by ICP-OES)

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	Chemical tests (cont'd):-	
		Japan Toy Safety Standard ST2016, English version (2016.4.1), Part 3
All toys' materials		Cl. 1.1 *Test Procedures for Compliance testing*:
	- Colouring matters	Cl. 2.1
Materials which are mainly composed of polyethylene and polyvinyl chloride (excluding parts on which paint coating is applied)		Cl. 1.2 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.2.1 & Cl. 2.2
	- Residue on evaporation	Cl. 1.2.1 & Cl. 2.3
	- Heavy metals	Cl. 1.2.1 & Cl. 2.4
	- Arsenic	Cl. 1.2.1 & Cl. 2.5
	- Cadmium (excluding materials mainly composed of polyethylene)	Cl. 1.2.1 & Cl. 2.6
Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)		Cl. 1.3 *Test Procedures for Compliance testing*:
	- Heavy metals	Cl. 1.3.1 & Cl. 2.4
	- Arsenic	Cl. 1.3.1 & Cl. 2.5
Vinyl chloride resin coating		Cl. 1.4 *Test Procedures for Compliance testing*:
	- Consumption of potassium permanganate	Cl. 1.4.1 & Cl. 2.2
	- Residue on evaporation	Cl. 1.4.1 & Cl. 2.3
The paint coating applied to the body or the components of the toys, (including vinyl chloride resin coating; excluding the printing ink used for paper containers)		Cl. 1.5 *Test Procedures for Compliance testing*:
	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.5.1 & Cl. 2.7 (1) ①, (2) & (3)
Textile products used for toys		Cl. 1.6 *Test Procedures for Compliance testing*:
	- Free formaldehyde	Cl. 1.6 & Cl. 2.8 ***<Excluding the following>*** Confirmation test by HPLC

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	Chemical tests (cont'd):-	
		Japan Toy Safety Standard ST2016, English version (2016.4.1), Part 3
Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Cl. 1.8 *Test Procedures for Compliance testing*: Cl. 1.8.1 & Cl. 2.1 Cl. 1.8.2 & Cl. 2.7 (1) ②, (2) & (3)
Plasticized material in toys	- Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP) - Butyl benzyl phthalate (BBP) - Di-isononyl phthalate (DINP) - Di-isodecyl phthalate (DIDP) - Di-n-octyl phthalate (DNOP)	Cl. 1.9 ***<Excluding the following>*** Cl. 1.9.3 *Test Procedures for Compliance testing*: Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID
Rubber pacifiers	- Material test: Cadmium and Lead - Dissolution test: Phenol, Formaldehyde, Zinc, Heavy metals Residue on evaporation	Cl. 1.10 *Test Procedures for Compliance testing*: Cl. 2.11.1 Cl. 2.11.2
Metals used for toy (neither painted nor covered)	- Lead	Cl. 1.11 *Test Procedures for Compliance testing*: Cl. 2.12 & 2.7 (2) & (3)

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	Chemical tests (cont'd):-	
		Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010)
Decals	- Heavy metals - Arsenic	Part III A-1 & Part II B-4 Part III A-1 & Part II B-7
Origami paper	- Heavy metals - Arsenic	Part III A-2 & Part III A-1 (2)a & Part II B-4 Part III A-2 & Part III A-1 (2)b & Part II B-7
Rubber pacifiers	- Materials testing: Cadmium and Lead - Eluting testing:, Phenol, Formaldehyde, Zinc, Heavy metals Evaporation of residue	Part III A-3 & Part II D-3(2)a & Part II B-9 Part III A-3 & Part II D-3(2)b & Part II B-8 Phenol Part III A-3 & Part II D-3(2)b & Part II B-8 Formaldehyde Part III A-3 & Part II D-3(2)b & Part II B-9 Part III A-3 & Part II D-3(2)b & Part II B-4 Part III A-3 & Part II D-3(2)b & Part II B-5
Coating film of toys	- Cadmium, lead and arsenic	Part III A-4 & Part II B-9
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III A-5 & Part II B-1 Part III A-5 & Part II B-5
Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III A-6 & Part III A-5(2)a & Part II B-1 Part III A-6 & Part III A-1(2)a & Part II B-4 Part III A-6 & Part II B-9 Part III A-6 & Part III A-5(2)b & Part II B-5 Part III A-6 & Part III A-1(2)b & Part II B-7

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	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" & Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010)
All designated toys with parts made from plasticized materials	- Butyl benzyl phthalate (BBP) - Bis (2-ethylhexyl) phthalate (DEHP) - Dibutyl phthalate (DBP)	Part III A-7 *Test procedures for compliance testing of PVC, polyurethane and rubber:* ST2012 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID ST2016 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID *Test procedures for compliance testing of materials other than PVC, polyurethane and rubber:* CPSC Test Method: CPSC-CH-C1001-09.3 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy
Parts of toys (other than those intended to come into direct contact with infant's mouth) made from synthetic resins which are mainly composed of polyvinyl chloride	- Di-isononyl phthalate (DINP)	Part III A-8 *Test procedures for compliance testing of PVC, polyurethane and rubber:* ST2012 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID ST2016 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID

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	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" & Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010)
Parts made from plasticized materials that intended to come into direct contact with infant's mouth	- Di-isodecyl phthalate (DIDP) - Di-isononyl phthalate (DINP) - Di-n-octyl phthalate (DNOP)	Part III A-9 *Test procedures for compliance testing of PVC, polyurethane and rubber:* ST2012 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID ST2016 Part 3 Cl. 2.10 ***<Excluding the following>*** Characterization & content determination tests by GC-FID *Test procedures for compliance testing of materials other than PVC, polyurethane and rubber:* CPSC Test Method: CPSC-CH-C1001-09.3 ***<Excluding the following>*** Optional Sample Pre-screen Using Infrared (IR) Spectroscopy

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	Chemical tests (cont'd):-	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" *Test procedure for compliance testing:-* Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (following the tentative English translation published by JETRO January 2009 and Amd. by MHLW Notification No.336, September 6, 2010) (cont'd)
Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III A-10 & Part III A-5(2)a & Part II B-1 Part III A-10 & Part III A-1(2)a & Part II B-4 Part III A-10 & Part III A-5(2)b & Part II B-5 Part III A-10 & Part III A-1(2)b & Part II B-7
Metal jewelry toys that might be swallowed by infants and small children	- Lead	Part III A-11 & Part II B-9
Synthetic resin-based colouring agents used in the manufacture of toys	- Colouring agent	Part III B

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	Electrical tests :-	
Battery operated toys	- Battery operated toy safety tests	PNS/BHDT ISO 8124-1: 2008, Annex A
		ASTM F963-23 Section 4.25 < ***Excluding the following*** > Section 4.25.9
Electric toys supplied at extra-low voltage	- Compliance inspection and safety tests	IEC 62115: 2017 BS EN IEC 62115:2020+A11:2020 EN IEC 62115:2020+A11:2020 ***<Excluding the following>*** for the above three standards Cl. 9.1 (test to Annex D), 11 (IP test to IEC 60529), 12.1, 13.8, 18.2.2 (burning tests to IEC 60695-11-10 and ISO 9772), 19 (radiation tests), Annex C, D, E, I and J
	- Compliance inspection and safety tests	MS 62115: 2008 < ***Excluding the following*** > Cl.11.1 (IP test to IEC 60529), 19.2.1 (burning tests to IEC 60695-11-10 and ISO 9772), Annex C
	- Compliance inspection and safety tests	SANS 62115: 2005 SNI IEC 62115:2011 (English version) < ***Excluding the following*** > for the above two standards Cl.11.1 (IP test to IEC 60529), 19.2.1 (burning tests to IEC 60695-11-10 and ISO 9772), 20 (radiation tests), Annex C and E

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ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
	Electrical tests :- 電性能測試	
Electric toys supplied at extra-low voltage 電玩具	- Compliance inspection and safety tests	GB 6675.1-2014 Cl. 5.4 and GB 19865-2005 < ***Excluding the following***> Cl. 11.1 (IP test to GB 4208), 19.2.1 (burning tests to GB/T 5169.16 and ISO 9772), 20 (radiation tests), Annex C and E
	- 安全測試	GB 6675.1-2014 Cl. 5.4 及 GB 19865-2005 <***不包括***> Cl. 11.1 (根據 GB 4208 的耐水測試) 19.2.1 (按 GB/T 5169.16 及 ISO 9772 進行的耐燃試驗), 20 (輻射測試) 附錄 C 及 E

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	Flammability tests :-	
Toys	- Safety requirements and test methods	16 CFR Parts 1500.44 and 1610 ASTM F963-23 Section 4.2
Toys	- Safety requirements and test methods	ISO 8124-2: 2014 ISO 8124-2: 2023 AS/NZS 8124.2: 2023 ***<Excluding the following>*** for the above three standards Tests for flammable gases, extremely flammable liquids, highly flammable liquids and flammable gels MS ISO 8124-2: 2008 PNS/BHDT ISO 8124-2: 2008 SANS 8124-2: 2008 SNI ISO 8124-2: 2010 (English version) TCVN 6238-2: 2008 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam) ***<Excluding the following>*** for the above five standards Test for flammable gases, highly flammable solids, highly flammable liquids, flammable liquids and flammable gels
Toys	- Safety requirements and test methods	Canada Toys Regulations SOR/2011-17 (Last amended on 20 November 2024) Section 21, 32, 33 and 34 Canada Toys Regulations SOR/2011-17 (Last amended on 11 January 2019) Sections 21, 32, 33 and 34
Toys	- Safety requirements and test methods	EN 71-2: 2020 + A1: 2025 ***<Excluding the following>*** Test for flammable gases, extremely flammable Liquids, highly flammable liquids and flammable gel

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	Flammability tests :- 燃燒性能測試	
Toys	- Safety requirements and test methods	Japan Toy Safety Standard ST 2016 First Edition (2016.04.01) Part 2 (based on the English version provided by JTA in April 2016) ***<Excluding the following>*** Tests for flammable gases, extremely flammable liquids, highly flammable liquids and flammable gels
Toys 玩具	- Safety requirements and test methods	CNS 4797: 2015 Cl.4 a) and CNS 4797-1: 2014 ***<Excluding the following>*** Test for flammable gases, highly flammable solids, highly flammable liquids, flammable liquids and flammable gels
	- 安全規定及測試方法	CNS 4797: 2015 Cl.4 a) 及 CNS 4797-1: 2014 ***<不包含>*** 易燃氣體、高度易燃固體、 高度易燃液體、易燃液體及易燃膠體
Toys 玩具	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.2.1 and GB 6675.3-2014 ***<Excluding the following>*** Test for flammable gases, highly flammable solids, highly flammable liquids, flammable liquids and flammable gels
	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.2.1 及 GB 6675.3-2014 ***<不包含>*** 易燃氣體、高度易燃固體、 高度易燃液體、易燃液體及易燃凝膠體

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	Flammability tests :-	
Soft infant and toddler carrier	Flammability test	ASTM F2236-16a Cl. 5.7 16 CFR Part 1226 in conjunction with ASTM F2236-14 Cl. 5.7 ASTM F2236-24 Cl. 5.7 16 CFR Part 1226 in conjunction with ASTM F2236-24 Cl. 5.7
Toy chests	Flammability test	16 CFR 1500.3(c)(6) and 16 CFR 1500.44

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	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	ISO 8124-1: 2018 < ***Excluding the following*** > Cl. 4.8.2 ISO 8124-1: 2022 + Amd.1: 2025 < ***Excluding the following*** > Cl. 4.8.2
Toys	- Safety requirements and test methods	AS/NZS ISO 8124.1: 2023 < ***Excluding the following*** > Cl. 4.8.2 Commonwealth of Australia's Competition and Consumer Act 2010 - Consumer Protection Notice No. 5 of 2012 Imposition of Permanent Ban on Small, High Powered Magnets *Test procedures for compliance testing:* AS/NZS ISO 8124.1:2010, cl. 5.2 and 5.31
Toys	Safety requirements and test methods	BS EN71-1: 2014 + A1: 2018 EN 71-1: 2014 + A1: 2018 **< *Excluding the following* >** For the above two standards Cl. 4.18 (test to EN 15649-3), 4.20.2.5 and 4.20.2.12
	Graphical symbol for age warning labelling	EN 71-6: 1994

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	Physical and mechanical tests :- 機械及物理性能測試	
Toys 玩具	- Safety requirements and test methods	CNS 4797: 2015 Cl. 4 c), 6, 7 and CNS 4797-3: 2015
	- 安全規定及測試方法	CNS 4797: 2015 Cl. 4 c), 6, 7 及 CNS 4797-3: 2015
Toys 玩具	- Safety requirements and test methods	GB 6675.1-2014 Cl. 5.1.1 to 5.1.8, 5.1.9a), 5.1.10, 5.1.11, 5.7 and GB 6675.2-2014
	- 安全規定及測試方法	GB 6675.1-2014 Cl. 5.1.1 to 5.1.8, 5.1.9a), 5.1.10, 5.1.11, 5.7 及 GB 6675.2-2014
	- Instructions for use of toys	GB 5296.5-2006
	- 玩具使用說明	GB 5296.5-2006
	- Graphical symbol for age warning labeling	GB/T 26710-2011
	- 年齡警告圖標	GB/T 26710-2011
	- Test method to determine the kinetic energy of projectile toys	GB/T 26175-2010
	- 彈射玩具動能測試方法	GB/T 26175-2010

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	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	Japan Toy Safety Standard ST 2016 First Edition (2016.04.01) Part 1 (based on the English version provided by JTA in April 2016) ***<Excluding the following>*** Cl. 4.8.2, 4.25, 7
Toys	- Safety requirements and test methods	MS ISO 8124-1: 2011
	- Graphical symbol for age warning labeling	MS 1774: Part 6: 1998
Toys	- Safety requirements and test methods	PNS/BHDT ISO 8124-1: 2008 ***< Excluding the following >*** Annex F (for toys with earphones or headphones)
Toys	- Safety requirements and test methods	SANS 8124-1: 2009
Toys	- Safety requirements and test methods	SNI ISO 8124-1: 2010 (English version)
Toys	- Safety requirements and test methods	TCVN 6238-1: 2011 (English translation published by Information Centre for Standards, Metrology and Quality, Vietnam)
Toys and children's products		Hong Kong Ordinance Ch. 424C, Toys and Children's Products Safety Regulation
	- Identification marking for toys	Section 5
	- Bilingual warning or caution for toys	Section 6
	- Identification marking for children's products	Section 10
	- Bilingual warning or caution for children's products	Section 11

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	Physical and mechanical tests :-	
Toys	- Safety requirements	ASTM F963-23 Cl. 4.1, 4.3.7, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.20.2, 4.21, 4.22, 4.23.1, 4.23.2, 4.24, 4.26, 4.27, 4.28, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.37, 4.38, 4.39, 4.40, 4.41 < ***Excluding the following*** > 4.1(examination of level of hazardous substances in reprocessed materials to 4.3.1), 4.6.2, 4.8.1, 4.15 (multiple seating or standing area), 4.20.1
	- Labelling requirements	Section 5
	- Instructional literature	Section 6
	- Producer's markings	Section 7
	- Test methods	Section 8
Toys and children's products	- Safety requirements and test methods	Federal Hazardous Substances Act Regulations 16 CFR 1500.48 16 CFR 1500.49 16 CFR 1500.50 16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53 16 CFR 1501 16 CFR 1510
Balls intended for use by children under 3 years of age	- Method for identifying mechanical hazards because of small balls	16 CFR 1500.18(a)(17)
Dive sticks	- Method for identifying mechanical hazards because of small balls	16 CFR 1500.18(a)(19) in conjunction with test methods specified in 16 CFR 1500.86(a)(7) or 16 CFR 1500.86(a)(8)
Marbles, small balls, balloons and other small parts intended for use by children above 3 years of age	- Labelling requirements	16 CFR 1500.19
Pacifiers	- Safety requirements and test methods	16 CFR 1511

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	Physical and mechanical tests :-	
Toys	- Safety requirements and test methods	Canada Toys Regulations SOR/2011-17 (last amended on 20 November 2024) Section 3, 4, 7 to 19, 28, 30 to 31, 37, 40 to 47 Canada Toys Regulations SOR/2011-17 (last amended on 11 January 2019) Sections 3, 4, 7 to 19, 28, 30 to 31, 37, 40 to 44 Health Canada Product Safety Reference Manual Book 5 – Laboratory Policies and Procedures Part B: Test Method Section Method M00.1 (2019) Method M00.2 (2020) Method M00.3 (2021) Method M00.4 (2017) Method M01.1 (2019) Method M03 (2016) Method M04 (2017) Method M05 (2021) Method M18 (2021) (Note: The above test methods should be used in conjunction with the relevant sections of Canada Toys Regulations (SOR/2011-17))
	- Safety tests	Health Canada – Information for Manufacturers, Importers, Distributors and Retailers of Products Containing Small, Powerful Magnets *Test procedures for compliance testing:* ASTM F963-11, cl. 8.24.1 to 8.24.3

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	Physical and mechanical tests :- 機械及物理性能測試	
Children's jewellery	- Mechanical requirements - Test Methods	ASTM F2923-20 Cl. 13 Cl. 14
Cutlery and feeding utensils	Safety requirements and test methods	EN 14372: 2004 < ***Excluding the following*** > Cl. 5.4 and 6.3, Annex A and Annex B
Soft infant and toddler carrier	- Safety and performance tests	ASTM F2236-16a 16 CFR Part 1226 in conjunction with ASTM F2236-14 ASTM F2236-24 16 CFR Part 1226 in conjunction with ASTM F2236-24
Toy chests	- Performance requirements and test methods	ASTM F834-84 (2008) < ***Excluding the following*** > Cl. 6.1
Writing and marking instruments 書寫用具	Safety tests for safety caps 筆帽安全測試	ISO 11540: 2014 BS 7272-1: 2008 GB 21027-2007 Cl. 3.7, 3.8, 4.6, 4.7 and 6 and Annex E 3.7, 3.8, 4.6, 4.7 , 6 及附錄 E JIS S 6060: 1996
	Safety tests for end closures	BS 7272-2: 2008 + A1:2014