

### Product Testing

Analysis	Method
Asbestos	Polarized Light Microscopy
ASTM F963-11 Heavy Metals Content	ASTM F963-11 4.3.5/8.3
CA Proposition 65 Lead and Phthalates	See CPSC Methods
CPSIA Lead in Metal Substrates	CPSC-CH-E1001-08
CPSIA Lead in Non-Metal Substrates	CPSC-CH-E1002-08
CPSIA Lead in Surface Coatings	CPSC-CH-E1003-09 / 16 CFR 1303
CPSIA Phthalates (includes DnHP)	CPSC-CH-C1001-09.3
Fourier Transform Infrared Spectroscopy (FTIR)	-
Karl Fisher - Low Level Moisture Determination	-
ROHS Characterization	-
Scanning Electron Microscopy	-
Toxics in Packaging	CONEG / NERC / EU Directive
Total Cadmium	-
ASTM F963-11 Physical & Mechanical	ASTM F963-11 / 16 CFR
-Sharp Edges	Section 4.7 / 16 CFR 1500.49
-Sharp Points	Section 4.9 / 16 CFR 1500.48
-Small Objects	Section 4.6 / 16 CFR 1501
-Use and Abuse	Section 8 / 16 CFR 1500.50-.53
California Proposition 65 Chemical Analysis	-
Pre-Production Labeling Evaluations	-
Flammability of Fabrics	ASTM F963-11
Flammability of Solids / Soft Toys	ASTM F963-11 / 16 CFR 1610
PA Stuffing Cleanliness	-
EN71 Part 3	Subcontracted
EU Reach Regulations	Subcontracted
BPA Analysis	-

Analysis	Method
Volatile Organic Compounds	-
Formaldehyde	-
Tarnish Study	-
Physical & Mechanical Testing	CCPSA Toys Regulations
Physical & Mechanical Testing	SOR/2011-17
Total Lead & Mercury Analysis	SOR/2011-17 Section 23
Canadian Soluble Metals Analysis	SOR/2011-17 Section 23
Phthalate Content	CCPSA / SOR/2010 - 298
Flammability	SOR/2011-17
Lead in Children's Jewelry	SOR/2011-19
Flashpoint / Combustability	-

### Rush Testing

Please call ahead for rush availability

Turn - Around Time	Additional Charge
Same Business Day	150%
1 - Business Day	100%
2 - 3 Business Days	50%
4 - 5 Business Days	25%

## Flame Retardants -

**Organics**

Analysis	Method
Alcohol Scan - Direct Aqueous Injection	DAI-GC / FID
Bisphenol A (BPA) Analysis	-
Ethylene Dibromide & Dimochloropropane	Aqueous 504
Glycol Scan – Direct Aqueous Injection	8015M / DAI-GC/FID
Haloacetic Acids – HAAs	552.2
Herbicides	8151A
PCBs – Polychlorinated Biphenyls, Soils/Water	608 / 8082
PCBs – Polychlorinated Biphenyls, in Oil	EPA 600/4-81-045
PCBs – Polychlorinated Biphenyls, on Wipes	8082
Pesticides	608 / 8081B
Petroleum Hydrocarbons, Extractable – EPH	MA DEP EPH
Petroleum Hydrocarbons, Total – GC/FID	8100M / 8015B
Petroleum Hydrocarbons, Total – HEM	1664
Petroleum Hydrocarbons, Volatile – VPH	MA DEP VPH
Polynuclear Aromatic Hydrocarbons – PAHs	625 / 8270D
Semi-Volatile Organic Compounds – SVOCs	625 / 8270D
Soxhlet Extraction, Manual	3540C
Trihalomethanes in Drinking Water -	524.2

**Metals**

Analysis	Method
Metals Preparation – Acid Digestion	3020, 3550
Metals Preparation – Filtration	Vacuum Filtration
Chromium, Hexavalent – Cr+6	218.5, 7196
Chromium, Trivalent – Cr+3	200.7, 218.5, 6010, 7196
ICP Metals	200.7 / 6010
ICP-MS Metals	200.8 / 6020
Iron, Ferric, as Fe+3	200.7, SM 3500 Fe-D
Iron, Ferrous, as Fe+2	SM 3500 Fe-D
Mercury, with digestion – CVAA	245.1 / 7470 / 7471
Priority Pollutant-13 Metals – ICP / CVAA	200.7 / 245.1 / 6010
RCRA Metals – ICP / CVAA	6010 / 7470 / 7471
Target Analyte List – TAL, Total MCP Metals	6010 / 7470 / 7471

**Exposure Assessment & Management**

Analysis	Method
Asbestos Inspections, Monitoring & Consulting	-
Airbon & Direct Fungal Analyses	-
Industrial Hygiene	-
Indoor Air Quality Assessment	-
Occupational Training*	-

\* Please inquire for options and pricing.

THMs	524.2
Volatile Organic Compounds - VOC	8260C, 524.2, 5035, 624

### General Chemistry

Analysis	Method
Hardness, Total as CaCO <sub>3</sub> , by calculation	200.7 / 2340B
Moisture Content, Total @ 103 °C	SM 2540B
Nitrogen, Total – TN (Nitrate + Nitrite + TKNT)	300.0 + SM 18-B,E/19,
Nitrogen, Total Ammonia as N	SM 4500-NH <sub>3</sub> -C
Nitrogen, Total Kjeldahl as N – TKNT	SM 18-B,E/19,
Nitrogen, Total Nitrate as N	4500-NO <sub>3</sub> -E / 300.0
Nitrogen, Total Nitrite as N	4500-NO <sub>2</sub> -B / 300.0
Odor, Threshold Odor Number	140.1
Oil & Grease, Total – HEM	1664
Oxidation & Reduction Potential – ORP	ASTM D1498-08
Oxygen, Dissolved	SM 4500-O,G
pH	SM 4500-H-B / 9040
Phenols, Total (colorimetry)	420.1 / 9065
Phenols, Total (GC-MS)	625 / 8270
Phosphate, Ortho, as P	SM 4500-P-B / 300.0
Phosphate, Total, as P	SM 4500-P-B-E
Quaternary Ammonium Compounds as CTAB	HACH
Salinity	SM 2520B
Silica, Total	8186
Solids, Settleable	SM 2540F
Solids, Total – TS, @ 103 °C	SM 2540B
Solids, Total Dissolved – TDS	SM 2540C
Solids, Total Suspended – TSS	SM 2540D
Solids, Volatile, Suspended – VSS	SM 2450E
Solids, Volatile, Total – TVS, @ 550 °C	SM 2450E
Specific Conductivity	SM 2510B / 120.1

Analysis	Method
Sulfate, Total as SO <sub>4</sub>	SM 4500-SO <sub>4</sub> E / 300.1
Sulfite, Total as SO <sub>3</sub>	300.1
Sulfur, Total as S	ASTM D129
Surfactants as C.T.A.S.	SM 5540D
Surfactants as M.B.A.S.	SM 5540C
Tannin & Lignin	SM 5550B
Total Organic Carbon – TOC	5310B, 9060
Total Organic Matter – TOM	ASTM D2974-87
Turbidity	2130B / 180.1
UV-254 Absorbance	SM 5910B

### Microbiology

Analysis	Method
Coliform Bacteria, Escherichia Coli – E.Coli	9213D / 9223B
Coliform Bacteria, Fecal (MF / P-A)	SM 9222D / 9223B
Coliform Bacteria, Total (MF / P-A)	SM 9222B / 9223B
Enterococci	Enterolert
Heterotrophic Plate Count	9215B, R2A Agar
USP51/61	9215B, R2A Agar

### Waste Characteristics

Analysis	Method
BTU Content	ASTM D1989
Conductivity, Specific	SM 2510B / 120.1
Corrosivity – Reported as pH	SM 4500-H-B / 9040/9045
Halogens, Total	ASTM D808
Ignitability	1030 / 1010
Paint Filter Test – Free Liquids	9095



Specific Gravity

D1298

Reactivity – Cyanide & Sulfide

SW-846 7.3.3 / 7.3.4