

Product:	Toy		
Scope:	Toy is defined as any object designed, manufactured, or marketed as a plaything for children less than 14 years of age.	Protocol No.	TYCP-16001-US
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**NB: Where there is no applicable standard, Intertek has chosen the most relevant International standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.**

Attribute	Citation	Requirement / Limit	Result
<b>Supplemental Protocol(s)</b>			
†* CA Prop 65 (Mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65.	
<i>Note: Additional cost, sample size &amp; TAT may be required if testing to one or more supplemental protocols is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.</i>			
<b>Chemical Analysis</b>			
†* Lead in Paint & Similar Surface Coating	ASTM F963-11, Section 4.3.5.1 / Consumer Product Safety Improvement Act of 2008 Title I Section 101 / 16 CFR 1303	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.009% (90ppm) by weight of the total content.	
*† Lead Content in Surface Coating (Mandatory in state Illinois)	Illinois Lead Poisoning Prevention Act and its Amendments	The accessible components (before and after use and abuse test) on toy (with external coatings) for children aged under 12, child care articles for aged below 6, and children's jewelry of aged under 12, shall not contain Lead content in excess of 0.004% (40 ppm) by weight of the total content.  If the total Lead content is more than 40 ppm but less than 90 ppm, it shall have a warning statement that indicates that at least one component part of the item contains Lead.	
*† Lead Content of Accessible Component Parts	ASTM F963-11, Section 4.3.5.2 / Consumer Product Safety Improvement Act of 2008 Title I Section 101	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.01% (100ppm) of the weight of the component.	
*† Lead Content in Accessible Substrate Material (Mandatory in state Illinois)	Illinois Lead Poisoning Prevention Act and its Amendments	The accessible components (before and after use and abuse test) on child care articles for aged below 6, and children's jewelry of aged under 12, shall not contain Lead content in excess of 0.004% (40 ppm) by weight of the total content.  If the total Lead content is more than 40 ppm but less than 100 ppm, it shall have a warning statement that indicates that at least one component part of the item contains Lead.	

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*† Soluble Heavy Metal Content in Surface Coating and Substrate	ASTM F963-11, Section 4.3.5.1, 4.3.5.2	Shall not contain compounds of which the metal content of the soluble material exceeds the levels by weight (mg/kg) of the contained solid including pigments, film solids and driers  All except modeling clay: Antimony (Sb) 60, Arsenic (As) 25, Barium (Ba) 1000, Cadmium (Cd) 75, Chromium (Cr) 60, Lead (Pb) 90, Mercury (Hg) 60, Selenium (Se) 500  Modeling clay: Antimony (Sb) 60, Arsenic (As) 25, Barium (Ba) 250, Cadmium (Cd) 50, Chromium (Cr) 25, Lead (Pb) 90, Mercury (Hg) 25, Selenium (Se) 500	
*† Soluble Cadmium Content for Metallic Small Parts	ASTM F963-11, Section 4.3.5.2 (2)(c)	Metallic toys or metallic components of toys, which are small parts, shall not exhibit extraction of soluble cadmium exceeding 200µg.	
*† Mercury Content in Cosmetics	21 CFR 700.13 & Illinois Mercury Added Prohibition Act (Jan 2009 Amd)	Shall not exceed the limits below: - 1 ppm for product used other than eye area (21 CFR 700.13) - 65 ppm for product used only in the eye area (21 CFR 700.13) - Not Detected (Illinois Mercury Added Prohibition Act (Jan 2009 Amd))	
†* Mercury Content in Batteries	Battery Act, US Public Law 104-142	Alkaline-manganese batteries, alkaline-manganese button cell batteries, zinc-carbon batteries, mercuric-oxide button cell batteries shall conform to respective requirements.	
*† Mercury in Button Cell Batteries	Connecticut General Statutes, Section 22a-616(e) Maine – Title 38 Section 1661-C / Rhode Island – Title 23 Chapter 23-24.9-6 / Ohio – ORC 3734.64 /	Not detected (detection limit: 1 ppm).	
*† Stuffing Cleanliness	ASTM F963-11, Section 4.3.7 A.O.A.C. / Pennsylvania Regulations for Stuffed Toys	Loose fillers shall be visually evaluated for objectionable matter and labels shall be evaluated accordingly. In addition, fiber filling, whether natural or synthetic, shall conform to Pennsylvania stuffing cleanliness requirements.	
*† Hazardous Substances - Toxicological Risk Assessment	ASTM F963-11, Section 4.3.1 / 16 CFR 1500.3 / FHSA and Regulations promulgated under the Act	Toxicity Risk Assessment shall be conducted to substantiate the compliance to the regulations for products intended for use by children including but not limited to toys and parts of toys which must not be toxic or cause skin or eye irritation, all liquids, pastes, putties, gels and powder.  NOTE: Vendor shall provide chemical formulation to process evaluation. Vendor shall be responsible for the accuracy of information provided.	

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*† Hazardous Chemical Test for Liquid	16 CFR 1500.231	Liquid-filled children products shall not contain mercury, ethylene glycol, diethylene glycol, methanol, methylene chloride, petroleum distillates, toluene, and xylene.  In lieu of testing, test report can be submitted if dated within one year.	
* N-Nitrosamines Content in Rubber Nipples of Pacifiers	ASTM F963-11, Section 4.20.1	Rubber nipples on pacifiers, when sampled to ASTM F1313, shall not contain more than 10 parts per billion (ppb) of any one nitrosamine of sample nor exceed 20 ppb total nitrosamines	
* DEHP Content	ASTM F963-11, Section 4.3.8	Pacifiers, rattles, and teethingers shall not intentionally contain Di (2-ethylhexyl) phthalate. Shall not contain more than 3% of total solid content.	
*† Phthalates Content	Consumer Product Safety Improvement Act of 2008 Title I Section 108	Toy or Child care article shall contain the following phthalates in concentrations below 0.1%: DEHP : Di (2-Ethylhexyl) Phthalate DBP : Dibutyl Phthalate BBP : Benzyl Butyl Phthalate  In addition, Toy that can be placed in a child's mouth or Child care article shall contain the following phthalates in concentrations below 0.1%: DINP : Diisononyl Phthalate DIDP : Di-isodecyl Phthalate DNOP : Di-n-octyl Phthalate	
*† Phthalates Content (Mandatory for state California)	CA Legislature Assembly Bill AB1108	Toy or Child care article shall contain the following phthalates in concentrations below 0.1%: DEHP : Di (2-Ethylhexyl) Phthalate DBP : Dibutyl Phthalate BBP : Benzyl Butyl Phthalate  In addition, Toy or Child care article intended for use by a child under three years of age if that product can be placed in the child's mouth shall contain the following phthalates in concentrations below 0.1%: DINP : Diisononyl Phthalate DIDP : Di-isodecyl Phthalate DnOP : Di-n-octyl Phthalate	
*† Microbial Limit	ASTM F963-11, Section 4.3.6.3 / USP <61> &<USP <62>	Cosmetics, Liquids, Pastes, Putties, Gels and Powders used in toys (excluding art materials) shall be subjected to requirements of < 1,000 CFU/ml or (< 100 CFU/ml for cosmetics intended for use with the eyes and baby products) for total viable count (total plate count + yeast & mold count) and shall not be contaminated with Salmonella, E. Coli, Pseudomonas Aeruginosa, Staphylococcus Aureus, Candida Albicans, Clostridium spp., and Bile Tolerant Gram-negative Bacteria as intended to minimize risk associated with lack of cleanliness, shelf life and contamination.	

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*† Preservative Effectiveness	ASTM F963-11, Section 4.3.6.3, 4.3.6.4 / USP <51>	Formulations used to prevent microbial degradation in Cosmetics, Liquids, Pastes, Putties, Gels and Powders used in toys (excluding art materials) shall be tested for microbial control and preservative effectiveness.	
*† Total Coliform Count on Pure Water	ASTM F963-11, Section 4.3.6.1	Pure water used in filling of toys shall meet the requirement: < 1 CFU/100ml of total Coliform.	
*† FDA Solvent Extractive on Plastic Materials	21 CFR 170 – 189 ASTM F963-11, Section 4.3.3	Products intended for use in contact with food shall conform to the applicable requirements of the Food, Drug, and Cosmetic Act (FDCA), specifically 21 CFR 170 through 189.	
*† FDA Leachable Lead and Cadmium (For ceramic interior)	FDCA Section 402 ASTM F963-11, Section 4.3.3.2	Ceramic toy components intended or likely to hold food shall conform to the applicable requirements of the FDCA, Section 402 (a)(2)(c) and FDA Compliance Policy Guides.	
* Leachable Lead and Cadmium for Drink Vessels	SGCD / ASTM C927	Drink vessels decorated within top 20 mm of lip and rim area shall not exceed the following limits: Pb: 4.0ppm; Cd: 0.4ppm.	
*† Art Materials LHAMA Evaluation	ASTM F963-11, Section 4.29	Art materials as defined by 16 CFR 1500.14(b)(8) shall meet the requirements intended to minimize the potential risk associated with the use of art materials that present chronic, long-term health hazards (ASTM D4236 / LHAMA).	
*† FDA Cosmetic Ingredient List Evaluation	21 CFR 73, 74, 81 & 82 ASTM F963-11, Section 4.3.4	Cosmetics shall conform to the requirements of the FDCA as codified in 21 CFR 700 through 740 and color additive regulations in 21 CFR 73, 74, 81, and 82. Ingredients, color additives, etc. shall be evaluated in accordance with associated requirements in addition to any required warning labels. <b>Note: Vendor shall be responsible for the accuracy of information provided)</b>	

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*† Bisphenol A content	Various US State Laws / Solvent extraction followed by HPLC	<p>The following products shall not contain any detectable levels of Bisphenol-A:</p> <ul style="list-style-type: none"> <li>- Infant formula / baby food plastic container, jar or can;</li> <li>- All reusable or disposable food or beverage containers including lids and cups;</li> <li>- Baby bottle liners;</li> <li>- Pacifiers (or other sucking and teething products);</li> <li>- Straws.</li> </ul> <p>Report result as data for below products. It is vendor's responsibility to file a report to below states authorities (Maine (MN) Department of Environmental Protection. Washington (WA) Department of Ecology) if BPA is detected.</p> <ul style="list-style-type: none"> <li>- Toys (MN, WA);</li> <li>- Tableware (MN);</li> <li>- Child Care Articles (MN, WA);</li> <li>- Children's cosmetics (WA);</li> <li>- Children's jewelry (WA);</li> <li>- Child car seats (WA).</li> </ul> <p>NOTE: Actual testing will be conducted on plastic materials only. Vendor shall be responsible for the compliance of other materials.</p>	
†* Tris (2-chloroethyl) Phosphate (TCEP) and Tris (1,3-dichloro-2-propyl) Phosphate (TDCPP) Content	US State Law, State of Vermont	<p>Children product intended for use by 12 years of age, or residential upholstered furniture shall not contain TCEP or TDCPP more than 0.1% by weight in any component.</p> <p>EFFECTIVE DATE: July 1, 2014</p>	
†* Toxic Elements in Packaging Components	TPCH	<p>Packaging shall comply with TPCH in those states with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr shall not exceed 100 ppm.</p>	
<b>Physical Characteristic</b>			
Overall Dimensions	ITS-M0059	Report actual. Shall meet label claims (If applicable).	
Overall Weight	ITS-M0059	Report actual. Shall meet label claims (If applicable).	
*† Fibre Composition	AATCC 20 / AATCC 20A	<p>Single fiber: No tolerance;</p> <p>Blended fiber: +/- 3%.</p>	
<b>Safety Requirements</b>			
† Material Quality	ASTM F963-11, Section 4.1	New or reprocessed materials that used in toy shall be visually clean and free from infestation.	
<b>Flammability</b>			
*† Flammability on Solids - Material other than Textiles	ASTM F963-11, Section 4.2 / 16 CFR 1500.44	Burn rate < 0.10 inch/s. along the major axis of the toy, Accept Burn rate >0.10 inch/s. but < 0.15 inch/s. along the major axis of the toy, Accept but further investigation for improving performance shall be considered. (Exempt Kite, excluding paper.)	
*† Flammability on Clothing Textiles	ASTM F963-11, Section 4.2	Shall comply with all applicable requirements.	

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*† Flashpoint of Combustible Liquids	16 CFR 1500.3 (c)(6)(iii) / 16 CFR 1500.43(a)	Method of test for flashpoint of potentially volatile combustible materials (150 °F / 65.6 °C). All liquid filled items intended or likely to be used by children shall comply with this requirement.	
*† Flammability on Camping Tentage	CPAI-84	Materials shall comply with the requirements as defined.	
*† Flammability on Sleeping Bags	CPAI-75	Materials shall comply with the requirements as defined.	
*† Flammability on Self-pressurized Container	16 CFR 1500.3(c)(6)(viii)	Self-pressurized container shall meet the flammability requirements of 16 CFR 1500.3(c)(6)(viii).	
*† Flammability on Vinyl Plastic Film	16 CFR 1611	Clothing made from vinyl plastic film and vinyl plastic film intended for use in clothing should comply with 16 CFR 1611 as applicable.	
<b>Physical &amp; Mechanical</b>			
† Sound-Producing Toys	ASTM F963-11, Section 4.5	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Sound-Producing Toys - Close-to-the Ear Toys	ASTM F963-11, Section 4.5.1.1 & Section 4.5.1.3	Shall not produce continuous sounds with A-weighted equivalent sound pressure level (LAeq) that exceeds 65dB, &  Shall not produce impulsive sounds with C-weighted peak sound pressure level (LCpk) that exceeds 95dB	
† Sound-Producing Toys - All Other Toys except Close-to-the-Ear Toys and Push/Pull Toys	ASTM F963-11, Section 4.5.1.2	Shall not produce continuous sounds with A-weighted equivalent sound pressure level (LAeq) that exceeds 85dB.	
† Sound-Producing Toys - Any Type of Toy (excluding Toys Using Explosive Action)	ASTM F963-11, Section 4.5.1.4	Shall not produce impulsive sounds with C-weighted peak sound pressure level (LCpk) that exceeds 115dB.	
† Sound-Producing Toys - Toy Using Percussion Caps or Other Explosive Action	ASTM F963-11, Section 4.5.1.5	Shall not produce impulsive sounds with C-weighted peak sound pressure level (LCpk) that exceeds 125dB.	
† Small Objects	ASTM F963-11, Section 4.6	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Small Objects - Small Objects	16 CFR 1501 / ASTM F963-11, Section 4.6.1	Toys intended for children under 36 months (3 years) of age shall not include removable, liberated components, or fragments of toys before or after use and abuse that are small enough (without being compressed) to fit entirely within the small parts cylinder.	
† Small Objects - Mouth-Actuated Toys	ASTM F963-11, Section 4.6.2	Shall not release small objects after 10 alternating blowing-and-sucking cycles of at least 18 in <sup>3</sup> (295 cm <sup>3</sup> ) of air.	
† Small Objects - Inflatable Toy	ASTM F963-11, Section 4.6.2.1	Shall not liberate small objects during inflation or deflation.	
† Accessible Edges	ASTM F963-11, Section 4.7	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Accessible Edges - Potential Sharp Edges	16 CFR 1500.49 ASTM F963-11, Section 4.7.1	Shall not contain any hazardous sharp edges before and after use and abuse tests, if intended for children under 8 years of age.	



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† Functional Sharp Edges or Points	ASTM F963-11 Section 4.7.2	Shall carry cautionary labeling as specified in 5.10 if intended for children from 48 to 96 months of age. Toys intended for age less than 48 months shall not have accessible hazardous functional sharp edges.	
† Metal Toys	ASTM F963-11 Section 4.7.3	Accessible metal edges, including holes and slots, shall be free of hazardous burrs and feathering, or shall be hemmed, rolled, or curled, or shall be covered with a permanently affixed device or finish.	
† Molded Toys	ASTM F963-11 Section 4.7.4	Accessible edges, corners, or mold parting areas of molded toys should be free of hazardous edges produced by burrs and flash or so protected that hazardous edges are not exposed.	
† Exposed Bolts or Threaded Rods	ASTM F963-11 Section 4.7.5	If the ends of bolts or threaded rods are accessible, the thread shall be free of exposed, hazardous sharp edges and burrs, or the ends shall be covered by smooth finish caps so that hazardous sharp edges and burrs will not be exposed.	
† Projections	ASTM F963-11, Section 4.8	Shall be free of hazardous projection or be protected before and after use and abuse tests, if intended for children under 8 years of age.	
† Accessible Points	ASTM F963-11, Section 4.9	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Accessible Points - Potential Sharp Points	16 CFR 1500.48 / ASTM F963-11, Section 4.9.1	Shall not contain any hazardous sharp points before and after use and abuse tests, if intended for children under 8 years of age.	
† Accessible Points - Potential Sharp Points	ASTM F963-11 Section 4.9.2	Toys in which an accessible, potentially hazardous sharp point is a necessary function of the toy, such as a needle in a sewing kit, shall carry cautionary labeling as specified in 5.10, if the toy is intended for children from 48 to 96 months old. Toys intended for children less than 48 months old shall not have accessible hazardous functional points.	
† Accessible Points - Wood	ASTM F963-11, Section 4.9.3	Shall be free of splinters both before and after use and abuse tests.	
† Wires or Rods	ASTM F963-11 Section 4.10	Shall conform to the requirements stated in this section before and after use and abuse tests.  Shall not fracture to produce hazardous point, edge or projection hazard after flexure test.  The ends of spokes on toy umbrellas shall be protected. If the protection is removed after tension test, the ends of the spokes shall be free from sharp edges and sharp points and the spokes shall have a minimum diameter of 0.08 in. and the ends shall be smooth, rounded and approximately spherical with no burrs.	
† Nails and Fasteners	ASTM F963-11, Section 4.11	Shall not present potentially hazardous accessible sharp points, sharp edges, ingestion, or projection hazards before or after use and abuse testing.	

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† Plastic Film	ASTM F963-11, Section 4.12	Shall be $\geq 0.03175\text{mm}$ in actual thickness and $\geq 0.03810\text{mm}$ in average thickness OR Shall be perforated with defined holes so that a minimum of 1% of the area has been removed over any area of $1.18 \times 1.18 \text{ in}^2$ . ( $30 \times 30 \text{ mm}^2$ ), if the average thickness is less than $0.03810\text{mm}$ .	
† Folding Mechanisms and Hinges	ASTM F963-11, Section 4.13	Folding mechanisms and hinges shall conform to the requirements stated in this section after use and abuse tests.	
† Folding Mechanisms and Hinges - Folding Mechanisms	ASTM F963-11, Section 4.13.1	Shall have a safety stop or locking device, or have adequate clearance to provide protection for the fingers, hands, and toes from crushing, laceration or pinching hazards in event of sudden movement or collapse of the article.	
† Folding Mechanisms and Hinges - Hinge-Line Clearances	ASTM F963-11, Section 4.13.2	The accessible gap at the hinge line can admit a $3/16 \text{ in.}$ diameter rod, it shall also admit a $1/2 \text{ in.}$ diameter rod, if the moveable portion of the toy weighs more than $1/2 \text{ lb.}$	
† Cords, Straps and Elastics	ASTM F963-11, Section 4.14	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Cords, Straps and Elastics - Cords, Straps and Elastics in Toys	ASTM F963-11, Section 4.14.1 / 8.22	Shall be less than $12 \text{ in.}$ long in free state under a load of $5 \text{ lb.}$ Any tangled loop shall not permit the passage of the head probe, if intended for children less than $18 \text{ months}$ of age.	
† Cords, Straps and Elastics - Cords, Straps and Elastics Containing a Breakaway Feature	ASTM F963-11, Section 4.14.1.1 / 8.22	If the loop admit the base of the head probe shall contain breakaway feature which capable of being reattached. The breakaway feature shall be released by a force less than $5 \text{ lbf}$ And the individual released cord, strap, or elastic should not exceed a maximum free length of $12 \text{ in.}$	
† Cords, Straps and Elastics - Self Retracting Pull Cords	ASTM F963-11, Section 4.14.2	Shall not retract more than $1/4 \text{ in.}$ when loaded by $2\text{-lb.}$ weight (excluding monofilament cords).  Monofilament cords, $1/16 \text{ in.}$ or less in diameter, shall not retract under a load of $1\text{-lb.}$ if intended for children under $18 \text{ months}$ of age.	
† Cords, Straps and Elastics - Pull Toys	ASTM F963-11, Section 4.14.3	Cords, straps & elastic which $> 12 \text{ in.}$ long shall not be provided with beads or other attachments that could tangle to form a loop, if intended for children under $36 \text{ months}$ of age.	
† Cords, Straps and Elastics - Strings and Lines for Flying Devices	ASTM F963-11, Section 4.14.4	Kite strings & handheld lines which $> 6 \text{ ft.}$ shall have an electric resistance of more than $10^8 \Omega/\text{cm}$ .	
† Cords, Straps and Elastics - Cords on Toy Bags Intended for Children Up to 18 Months	ASTM F963-11, Section 4.14.5	Shall not have a drawstring or cord as a means of closing if the toy bags are made of impermeable material with an opening perimeter greater than $14 \text{ in.}$	
† Stability and Overload Requirement	ASTM F963-11, Section 4.15	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Stability and Overload Requirement - Stability of Ride-On Toys and Toy Seats	ASTM F963-11, Section 4.15.1	Ride-on toys or toy seats with stable base shall fulfill Sideways, Fore and Aft Stability Requirements to minimize unexpected hazards that could be cause by tipping, if intend for children under $60 \text{ months}$ of age.	



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† Stability and Overload Requirement - Sideways Stability	ASTM F963-11, Section 4.15.2	Shall not tip in sideways stability tests for ride-on toys or toy seats intended for children under 60 months of age when - Putting on 10° incline surface if feet are available for stabilization. - Putting on 15° incline surface if feet are unavailable for stabilization.	
† Stability and Overload Requirement - Fore and Aft Stability	ASTM F963-11, Section 4.15.3	Shall not tip in fore & aft stability tests for ride-on toys or toy seats intended for children under 60 months of age when putting on 15° incline surface .	
† Stability and Overload Requirement - Stationary Floor Toys	ASTM F963-11, Section 4.15.4	Stationary floor toys with height greater than 30 in. and weighing more than 10 lb shall not tip on 10° incline surface in the stability test when movable portion is extended to its fullest travel after use and abuse tests.	
† Stability and Overload Requirement - Overload Requirements for Ride-On Toys and Toy Seats	ASTM F963-11, Section 4.15.5	Shall capable of withstanding an overload and without collapsing to produce a hazardous condition.	
† Stability and Overload Requirement - Wheeled Ride-on Toys	ASTM F963-11, Section 4.15.6 / 8.20	Shall conform with Dynamic Strength Test.	
† Confined Spaces	ASTM F963-11, Section 4.16	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Confined Spaces - Ventilation	ASTM F963-11, Section 4.16.1	Shall provide unobstructed ventilation areas if the enclosed continuous volume is > 1.1 ft <sup>3</sup> .	
† Confined Spaces - Closures	ASTM F963-11, Section 4.16.2	Shall not be fitted with automatic locking devices and shall be opened with a force of 10 lbf or less from inside out direction.	
† Confined Spaces - Toys that Enclose the Head - Toys that Enclose the Head	ASTM F963-11, Section 4.16.3	Shall provide means for breathing by unobstructed ventilation areas. The ventilation areas shall consist of a minimum of two holes, with a total of at least 2 in. <sup>2</sup> (1300 mm <sup>2</sup> ) of ventilation and at least 6 in. (150 mm) between holes.	
† Wheels, Tires, and Axles	ASTM F963-11, Section 4.17	Shall not present sharp point, sharp edge, small part, or projection hazard before and after use and abuse tests.	
† Holes, Clearance, and Accessibility of Mechanisms	ASTM F963-11, Section 4.18	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Holes, Clearance, and Accessibility of Mechanisms - Accessible Clearance for Moveable Segments	ASTM F963-11, Section 4.18.1	The accessible clearance shall not be in the range between 3/16 in. to ½ in., if intended for children under 96 months of age.	
† Holes, Clearance, and Accessibility of Mechanisms - Circular Holes in Rigid Materials	ASTM F963-11, Section 4.18.2	If the accessible hole in sheet metal and other rigid materials less than 0.062 in. thick can admit a ¼ in. diameter rod to a depth 3/8 in., it shall also admit a ½ in. diameter rod, if intended for children of age 60 months of age or less.	
† Holes, Clearance, and Accessibility of Mechanisms - Supporting Chains	ASTM F963-11, Section 4.18.3.1	Shall be shielded if the chain is accessible and if a 0.19 in. diameter rod can be inserted between two links, if intended for children 36 months of age or less.	

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† Holes, Clearance, and Accessibility of Mechanisms - Chains or Belts for Ride-On Toys	ASTM F963-11, Section 4.18.3.2	Power transmission chains and belts in ride-on toys shall be shielded.	
† Holes, Clearance, and Accessibility of Mechanisms - Inaccessibility of Mechanisms	ASTM F963-11, Section 4.18.4	Shall not present pinching or laceration hazard if intended for children of aged 60 months of age or less.	
† Holes, Clearance, and Accessibility of Mechanisms - Winding Keys	ASTM F963-11, Section 4.18.5	Clearances between the flukes of the key and body of the toy shall not be between ¼ in. and ½ in. and no opening in the flukes of the key shall admit a 3/16 in. diameter rod, if intended for children under 36 months of age.	
† Holes, Clearance, and Accessibility of Mechanisms - Coil Springs	ASTM F963-11, Section 4.18.6	Coil springs that form part of a component that carries the weight of a child shall be shielded unless - It does not admit a 0.12-in. diameter rod OR - A 0.25-in diameter rod can be inserted freely when the spring subjected first to a weight of 3 lb. and then to a weight of 70 lb.	
† Simulated Protective Devices	ASTM F963-11, Section 4.19	Shall conform to the requirements stated in this section before and after use and abuse tests.	
† Simulated Protective Devices - Eye Protection	ASTM F963-11, Section 4.19.1	Shall not have sharp edges, sharp points, or loose parts that could enter the eye before and after use and abuse tests.	
†* Toy Pacifiers	16 CFR 1511 ASTM F963-11, Section 4.20	If intended for children under 36 months of age shall comply with Small Objects requirements, and either conform to the requirements of 16 CFR 1511 or have a nipple length no longer than 0.63 in.	
† Projectile Toys	ASTM F963-11, Section 4.21	- No projectile shall have any sharp edges, sharp points, or small parts. - No rigid projectile shall have a tip radius less than 0.08in. (2mm). - Kinetic energy of any rigid projectile shall not exceed 0.08J. Otherwise, it shall have an impact surface(s) of resilient material. - Any protective tip shall not be detached after torque & tension test - If the protective tip does become detached, it shall not be able to launch from the provided launcher. - After "Impact Test for Projectiles", the protective tip of projectile shall not produce or reveal hazardous points or edges. - Discharge mechanisms shall be unable to discharge potentially hazardous improvised projectiles such as pencils or pebbles. - Any arrow shall have a protective tip.	
† Teethers and Teething Toys	16 CFR 1510 ASTM F963-11, Section 4.22	Shall not be capable of entering & penetrating to the full depth of the cavity in the rattle test fixture and supplemental test fixture before and after use and abuse tests.	
† Rattles	16 CFR 1510 ASTM F963-11, Section 4.23	Shall not be capable of entering & penetrating to the full depth of the cavity in the rattle test fixture and supplemental test fixture before and after use and abuse tests.	

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† Squeeze Toys	16 CFR 1510 ASTM F963-11, Section 4.24	Shall not be capable of entering & penetrating to the full depth of the cavity in the rattle test fixture and supplemental test fixture before and after use and abuse tests, if intended for children under 18 months of age.	
*† Battery-Operated Toys	ASTM F963-11, Section 4.25.1 – 4.25.9	<ul style="list-style-type: none"> <li>- Maximum allowable direct current potential shall not exceed 24 V nominal.</li> <li>- Positive protection shall be provided that no primary battery will be charged up.</li> <li>- All batteries shall not be accessible both before and after use and abuse tests for toys intended for children under 36 months of age.</li> <li>- For all toys, battery that is a small part shall not be accessible before and after use and abuse test.</li> <li>- Batteries of different types or capacities shall not be mixed within any single electrical circuit.</li> <li>- The surfaces temperature of the batteries shall not exceed 71°C during normal use and abuse, including stalled motor condition.</li> <li>- No condition shall occur that would cause the toy to fail the temperature requirements or present a combustion hazard.</li> </ul>	
*† Battery-Powered Ride-On Toys	ASTM F963-11, Section 4.25.10	<ul style="list-style-type: none"> <li>- Maximum temperature measured on the insulation of any conductor shall not exceed the temperature rating of the material.</li> <li>- Shall not present a risk of fire in the stalled motor test.</li> <li>- Wiring system that has a user replaceable or resettable device for primary circuit protection shall not actuate in the nuisance tripping test.</li> <li>- Polymeric material in switches shall carry a minimum flame rating of UL-94 V-0 or have a glow wire ignition rating of 750°C.</li> <li>- Switch body shall not result in a short-circuit condition in the switch endurance and overload tests.</li> <li>- Switch shall not cause the vehicle to run continuously in the endurance and overload tests.</li> <li>- User replaceable circuit protection devices shall be listed, recognized or certified, and replaceable only with the use of a tool.</li> <li>- Battery connectors shall be with a V-0 flame rating or have a glow wire ignition rating of 750°C.</li> <li>- Battery charging system shall not present a risk of fire due to a short circuit condition.</li> <li>- Battery charging voltages shall not exceed the recommended charging voltages.</li> <li>- Battery charger shall be certified to the appropriate current national standard.</li> <li>- Wiring connected to the main/motor battery shall be short-circuit protected and shall not present the risk of fire.</li> <li>- Strain relief shall be provided to prevent mechanical stress on wire entering a connector block.</li> </ul>	

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† Toys Intended to be Attached to a Crib or Playpen	ASTM F963-11, Section 4.26	Shall conform to the safety requirements as stated.	
† Toys Intended to be Attached to a Crib or Playpen - Protrusions	ASTM F963-11, Section 4.26.1	Shall not have hazardous protrusions that could contribute to entanglement injury before and after use and abuse tests.	
† Stuffed and Beanbag-Type Toys	ASTM F963-11, Section 4.27 / 8.91	Shall withstand the seam tension force that determined from the age group for which the toy is intended.	
† Toy Gun Marking	ASTM F963-11, Section 4.30	Samples shall meet the requirements intended to minimize the potential for a toy gun to be mistaken for a real gun	
† Toy Gun Marking	15 CFR 1150	Sample shall comply with the requirements as defined in 15 CFR 1150.	
† Certain Toys with Nearly Spherical Ends	ASTM F963-11, Section 4.32	Shall conform to the requirement as stated in the section.	
† Certain Toys with Nearly Spherical Ends - Spherical Ends	ASTM F963-11, Section 4.32.1	Shall not be capable of entering and penetrating past the full depth of the cavity of the supplemental test fixture, if all of the below criteria are met: <ul style="list-style-type: none"> <li>- The toy is intended for children up to 18 months of age.</li> <li>- The toy or component containing the nearly spherical end weighs less than 1.1 lb (0.5 kg)</li> <li>- The nearly spherical, hemispherical, circular flared or dome shaped end adjoins a shaft, handle or support that has a smaller cross section</li> </ul>	
† Certain Toys with Nearly Spherical Ends - Nail, Screw, and Bolt Shapes	ASTM F963-11, Section 4.32.2	Shall not be capable of entering and penetrating past the full depth of the cavity of the supplemental test fixture, if the below criteria are met: <ul style="list-style-type: none"> <li>- intended for children between the ages of 18 and 48 months</li> <li>- have an overall length of 2.25 in. (57.1 mm) or greater</li> <li>- Their nearly spherical, hemispherical or domed ends have a diameter equal to or greater than 0.6 in. (15 mm)</li> <li>- The distance from the apex of the fastener to the undercut is 1.75 in. (44.4 mm) or less</li> </ul>	
† Certain Toys with Nearly Spherical Ends - Preschool Play Figures	ASTM F963-11, Section 4.32.3	Shall not be capable of entering and penetrating past the full depth of the cavity of the supplemental test fixture, if intended for children under 3 years of age.	
† Balls	ASTM F963-11, Section 4.34	Shall conform to the safety requirements as stated.	
† Balls - Balls/Loose Balls	ASTM F963-11, Section 4.34.1; 16 CFR 1500.18(a)(17)	Shall not contain small ball if intended for children under 36 months of age.	
† Toys with loose small ball	ASTM F963-11, Section 4.34.2	Toys intended for children at least 3 years old but less than 8 years of age that contain a loose small ball are subject to the requirements of 16 CFR 1500.19. Applicable labeling statements are contained in 5.11.3 of this specification.	

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† Pompoms	ASTM F963-11, Section 4.35 / 8.16	Pompoms detached during abuse tests shall not pass entirely through the 1.75-in. test fixture under its own weight, if intended for children under 3 years of age.	
† Hemispheric-Shaped Objects	ASTM F963-11, Section 4.36	Samples shall meet the requirements intended to minimize the potential suffocation risks presented by certain shape that can be placed over a young child's nose and mouth forming an airtight seal for children under 3 years of age.	
† Yo Yo Elastic Tether Toys	ASTM F963-11, Section 4.37	Toys with an end mass greater than 0.02 kg shall have tether length less than 50 cm measured when rotating at any speed up to a maximum speed of 80 rpm., if intended for children 36 months and over Yo-Yo waterball and any similar fluid yo-yo toy that contains a rubber ball filled with liquid attached to a rubber cord are banned in Illinois, New Jersey & New York.	
† Loose as-received hazardous Magnets	ASTM F963-11, Section 4.38.1	Toys must not contain a loose as-received hazardous magnet or a loose as-received hazardous magnetic component.	
† Hazardous Magnets	ASTM F963-11, Section 4.38.2	Toys shall not liberate a hazardous magnet or hazardous magnetic component after abuse test.	
† Jaw Entrapment in Handles and Steering Wheels	ASTM F963-11, Section 4.39	Activity tables intended to be played with by a standing child, large bulky toys, stationary floor toys, push toys intended to be pushed by a child walking upright, and ride-on toys shall conform to the safety requirements as stated, if intended for children under 18 months of age.	
*† Sunglasses	21 CFR 801.410 FDA Lens Impact Test	Shall be fitted with impact-resistant lenses to protect the consumer from potential eye injuries. All sunglasses shall also comply with the Simulated Protective Devices (refer to ASTM F963, Section 4.19 above). FDA impact resistance testing of a statistically representative sample size is the vendor's responsibility.	
*† Sunglasses	ANSI Z80.3 Luminous Transmittance, UVA/B, Traffic Signal Recognition	Shall comply with luminous transmittance properties and traffic signal recognition requirements for non-prescription sunglasses and fashion eyewear as specified based on intended primary function: general purpose, cosmetic use, and special purpose (skiing, climbing, beach, etc). Sunglasses containing a UVA/UVB protection, Traffic signal recognition and/or other ANSI Z80.3 claim will be tested to substantiate such claims.	
*† Dive Stick	16 CFR 1500	Samples shall meet the safety requirements as specified in 16 CFR 1500.	
† Safety Requirements of Toy Chest	ASTM F834-84 (R2008) section 2 / ASTM F963-07e1 section 4.27	Shall comply to below safety requirements for a toy chest as stated in the standards:	



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† Toy Chests - Lid Support	ASTM F834-84 (R2008) section 2.1 / ASTM F963-07e1 section 4.27.1	- Toy chests with vertically opening, hinged lids shall be provided with Lid-support mechanisms to prevent sudden collapse or dropping of the lid. - The toy chest lid shall comply with the above requirement before & after being subjected to 7,000 opening & closing cycles. - The lid support mechanisms shall not require adjustment by the consumer to insure adequate lid support. - Clearances or gaps produced by the action of such mechanisms shall be constructed so that if the gap admits a 0.19-in. (5-mm) diameter rod, it will also admit a 0.50-in. (13-mm) diameter rod.	
† Toy Chests - Hinge Line Clearance	ASTM F834-84 (R2008) section 2.2 / ASTM F963-07e1 section 4.27.2	Toys chests have a gap or clearance along a hinge line between a stationary portion and a moveable portion shall be constructed so that if the gap admits a 0.19-in. (5-mm) diameter rod, it will also admit a 0.50-in. (13mm) diameter rod at all positions or the arc of travel of the moveable portion.	
† Toy Chests - Closures	ASTM F834-84 (R2008) section 2.3 / ASTM F963-07e1 section 4.27.3	Shall not be fitted with automatic locking devices and shall be opened with a force of 10 lbf or less from inside out direction.	
† Toy Chests - Ventilation	ASTM F834-84 (R2008) section 2.4 / ASTM F963-07e1 section 4.27.4	Shall provide unobstructed ventilation areas if the enclosed continuous volume is > 1.1 ft <sup>3</sup> and in which all of the internal dimensions are 6-in. or more.	

**Performance Test**

Functionality	ITS-M0061	Shall function as intended as received	
* Luminous Transmittance (for Sunglasses)	ANSI Z80.3 Luminous Transmittance, UVA/B, Traffic Signal Recognition	Shall comply with luminous transmittance properties and traffic signal recognition requirements for non-prescription sunglasses and fashion eyewear as specified based on intended primary function: general purpose, cosmetic use, and special purpose (skiing, climbing, beach, etc). Sunglasses containing a UVA/UVB protection, Traffic signal recognition and/or other ANSI Z80.3 claim will be tested to substantiate such claims.	
* Transit Testing (By request only)	ISTA Procedure as Appropriate to Package	Packaged product shall be tested to applicable ISTA procedure and method, based on package configuration. Inspect package and product for damage upon completion of test. Report results	

**Labeling Requirement**


† Product Packaging and Labeling	F.P. & L. Act, 16 CFR 500 (For one time use products) OR NIST Handbook 130 Uniform Laws and Regulations (For others)	Manufacturer, packer, or distributor's name & address (city, state & zip).	
		Product Identification.	
		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).	



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† Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.	
Verify Label Claims	ITS-M0060	Shall meet label claims (If applicable). Remark any claim that is not verified.	
Instructions	ITS-M0060	Shall include clear and understandable assembly, use, maintenance, care and/or safety instructions as required. In addition, shall be provided in language appropriate to destination countries with no errors or spelling mistakes.	
† Age Grading	ASTM F963-11, Section 5.2 / Annex A1 and Determination Guidelines: Relating Children's Ages to Toys Characteristic and Play Behavior 2002 by CPSC	All toys shall be labeled to indicate the minimum age for intended use.  NOTE: Testing would be conducted according to either the labeled age grade or the appropriate age grade, as determined by Intertek, whichever is more stringent. In case if the product is not age labeled, the appropriate age grade will be determined by Intertek and tested accordingly.	
*† Tracking Label	Consumer Product Safety Improvement Act of 2008	Toys and children's articles shall have a permanent and distinguishing mark on itself and its packaging, to the extent practicable, enabling the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product.  Verified the presence only. The accuracy of tracking label will not be verified. The CPSC has not issued implementing guidance as to the size, location and format of the tracking label. However, the requirement to provide tracking information is mandatory regardless of whether the CPSC provides such guidance after the effective date.	

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† Warning Statement - Lead Content for Children Product (Mandatory in state of Illinois)	Illinois Lead Poisoning Prevention Act and its Amendments	<p>The total Lead content in any component part that is more than 0.004% (40 ppm) but less than the standard established by federal or state law or regulation unless the item bears a warning statement that indicates that at least one component part of the item contains Lead. The warning statement for items shall contain at least the following: "WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS."</p> <p>The statement shall be (Compliance with 16 CFR 1500.121 adopted under the FHSA constitutes compliance with the following labeling requirement):</p> <ul style="list-style-type: none"> <li>- located in a prominent place on the item or on the label on the immediate container of the item or package such that consumers are likely to see the statement under retail conditions;</li> <li>- conspicuous and not obscured by other written matter; legible;</li> <li>- contrast with the typography, layout and color of the other printed matter.</li> </ul> <p>NOTE: Children products cover Jewelry and painted toy intended for children under the age of 12; and child care articles which facilitates sleep, relaxation, feeding, help sucking or teething for children under age of 6.</p>	
† Promotional Materials	ASTM F963-11, Section 5.16	Packaging, literature accompanying toys, and point-of-sale presentations shall not use words, statements, or graphic material that are inconsistent in any way with the safety labeling instructions for use assembly or age grading of the toy.	
† Definition and Description	ASTM F963-11, Section 6.1	Information and instructions provided for the safe use or assembly of a toy shall be easy to read and understand by persons of the age level for whom the toy is intended. Shall be in the English language at a minimum.	
† Producers Markings	ASTM F963-11, Section 7	Either a principal component of a toy or the packaging of a toy shall be marked with the name and address of the producer or the distributor.	
† Warning Label for Small Parts (Small Objects, Small Balls, Marbles, and Balloons)	ASTM F963-11, Section 4.6.3 / 5.11.1 / 5.11.2 / 16 CFR 1500.19	<p>For toys and games intended for use by children who are at least three years (36 months) old but less than six years (72 months) of age shall bear a cautionary statement on the principal display panel of the package if the game includes small parts (unless exempt as defined).</p> <p> WARNING: CHOKING HAZARD – Small parts. Not for children under 3 yrs.</p>	

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† Warning Label for Toys Contain Small Ball	16 CFR 1500.19 / ASTM F963-11, Section 4.34.2 / 5.11.1 / 5.11.3.1	Any toy or game intended for children who are at least three (3) years old but less than eight (8) years of age that contain a small ball shall bear a cautionary statement. WARNING: ⚠ CHOKING HAZARD – This toy contains a small ball. Not for children under 3 yrs.	
† Warning Label for Marble	ASTM F963-11, Section 4.33 / 5.11.1 / 5.11.4 / 16 CFR 1500.19	Any marble intended for children three (3) years of age or older shall bear a cautionary statement. ⚠ WARNING: CHOKING HAZARD – This toy is a marble. Not for children under 3 yrs.	
† Warning Label for Toys Contain Marble	16 CFR 1500.19 / ASTM F963-11, Section 4.33.1 / 5.11.1 / 5.11.4.1	Any toy or game intended for children who are at least three (3) years old but less than eight (8) years of age that contains a marble shall bear a cautionary statement. ⚠ WARNING: CHOKING HAZARD – This toy contains a marble. Not for children under 3 yrs.	
† Warning Label for Latex Balloon	16 CFR 1500.19 / ASTM F963-11, Section 4.31 / 5.11.1 / 5.11.5	Any latex balloon or article intended for use by children that contains a latex balloon, shall bear cautionary statement. ⚠ WARNING: CHOKING HAZARD – Children under 8 yrs. Can choke or suffocate on uninflated balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.	
† Safety Labeling for Aquatic Toys	ASTM F963-11, Section 5.4 & 5.3	Shall carry safety labeling on toy & packaging to indicate that the item is not intended to be a life saving device. “WARNING: This is not a lifesaving device. Do not leave child unattended while device is in use.”	
† Age Grading for Crib and Playpen Toys (and Crib Gym)	ASTM F963-11, Section 4.26 & 4.26.3 / 5.5.1	Toys intended to be strung across a crib or playpen by means of a string, cord, elastic, or straps (including but not limited to, crib exercisers, crib gyms, and activity toys) & its packaging shall be labeled: “From birth to 5 months”.	
† Safety Labeling for Crib and Playpen Toys (and Crib Gym)	ASTM F963-11, Section 4.26 & 4.26.3 / 5.5.2 & 5.3	Toys intended to be strung across a crib or playpen by means of a string, cord, elastic, or straps (including but not limited to, crib exercisers, crib gyms, and activity toys) shall carry safety labeling on its packaging: ⚠ WARNING: Possible entanglement or strangulation. Remove toy when baby begins to push up on hands and knees. (Or equivalent text)	


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† Instructions for Crib and Playpen Toys	ASTM F963-11, Section 6.2	Toys intended to be strung across a crib or playpen by means of string, cords, elastic, or straps shall be provided with instructions for proper assembly, installation, and use to insure that the product does not present an entanglement or strangulation hazard, and instructions shall include instructions further defined by this section.	
† Age Grading for Mobiles of Crib and Playpen Toys	ASTM F963-11, Section 4.26.2 / 5.6.1	Mobiles intended to be attached to a crib or playpen & its packaging shall be labeled: "From birth to 5 months".	
† Safety Labeling for Mobiles intended to be attached to a crib or playpen	ASTM F963-11, Section 4.26.2 / 5.6.2.1 & 5.3	Mobiles & its packaging shall carry safety labeling: ⚠ WARNING: Possible entanglement injury. Keep out of baby's reach. Remove mobile from crib or playpen when baby begins to push up on hands and knees. (Or equivalent text)	
† Safety Labeling for Mobiles intended to be attached only to a wall or ceiling	ASTM F963-11, Section 4.26.2 / 5.6.2.2 & 5.3	Mobiles & its packaging shall carry safety labeling: ⚠ WARNING: Possible entanglement injury. Keep out of baby's reach. (Or equivalent text)	
† Instructions for Mobiles	ASTM F963-11, Section 4.26.2 / 6.4	Shall be provided with instructions for proper assembly, installation, and use to ensure that the product does not present an entanglement hazard and shall include instructions further defined by this section.	
† Safety Labeling for Strollers and Carriage Toys	ASTM F963-11, Section 4.28 / 5.7 & 5.3	Toys intended exclusively to be strung across strollers or carriages by means of string, cords, elastic, or straps, as well as their packages, shall carry safety labeling: ⚠ WARNING: Possible entanglement or strangulation injury when attached to crib or playpen. Do not attach to crib or playpen. (Or equivalent text)	
† Safety Labeling for Toys intended to be Assembled by an Adult	ASTM F963-11, Section 5.8 & 5.3	Shall carry a safety labeling on packaging to indicate adult assembly is required due to the presents of small parts, sharp points, sharp edges as received.	
† Instructions for Toys intended to be Assembled by an Adult	ASTM F963-11, Section 6.4 & 5.3	Assembly instructions that accompany toys that are intended to be assembled by an adult shall carry a safety labeling state that toy is to be assembled by an adult.	
† Safety Labeling for Simulated Protective Devices	ASTM F963-11, Section 4.19.2 / 5.9 & 5.3	Shall carry a safety labeling clearly on toy & packaging to warn the purchaser that the product is not intended to be a safety protective device.	
† Safety Labeling for Functional Sharp Edges or Points	ASTM F963-11, Section 4.7.2 & 4.9.2 / 5.10 & 5.3	Shall carry safety labeling on packaging stating that the sample contains a functional sharp edge or point, if intended for children from 48 to 96 months of age.	
† Labeling for Toy Caps	16 CFR 1500.86 / ASTM F963-11, Section 5.12	Shall conform to the requirements as defined by 16 CFR 1500.86.	

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† Labeling for Art Materials	16 CFR 1500.14 (b) (8) / ASTM F963-11, Section 4.29 / 5.13	Shall conform to the labeling requirements as defined by 16 CFR 1500.14 (b) (8) – LHAMA / ASTM D 4236. “Conforms to ASTM D4236”.	
*† Labeling for Electrical Toys	16 CFR 1505.3 / ASTM F963-11, Section 4.4 / 5.14	Shall conform to the labeling requirements of 16 CFR 1505.3.	
† Labeling for Battery-Operated Toys	ASTM F963-11, Section 4.25.1.1 / 5.15	Toys with non-replaceable batteries that are accessible with the use of coin, screwdriver or other common household tool shall bear a statement that the battery is not replaceable. If it is impractical to label the product, this information shall be placed on the packaging or in the instruction.	
† Instructions for Battery-Operated Toys	ASTM F963-11, Section 4.25.9 / 6.5	Battery-Operated Toys shall comply with 6.5, which Toys that use more than one battery in one circuit shall have instructions or the toy shall be marked with the following (or equivalent) information:  <ul style="list-style-type: none"> <li>- Do not mix old and new batteries.</li> <li>- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.</li> <li>- Instructions supplied with battery-powered ride-on toys shall contain guidance for safe use and maintenance of the toy. The instructions shall include at least the following:                             <ol style="list-style-type: none"> <li>1. Maximum weight or age limitations, or both, for safe use of the toy,</li> <li>2. The kinds of surfaces which are appropriate for safe use of the toy,</li> <li>3. The warning statements contained in 5.15.1.1,</li> <li>4. Only use the battery(ies) specified by the manufacturer, and</li> <li>5. Only use the charger(s) specified by the manufacturer.</li> </ol> </li> </ul>	
† Safety Labeling for Battery-Powered Ride On Toys	ASTM F963-11, Section 4.25.10.9 / 5.15.1 & 5.3	Toy shall carry safety labeling in according with 5.3, consisting of the signal word “WARNING” and contain, at a minimum, text which clearly conveys the following: WARNING (a) To reduce the risk of injury, adult supervision is required. Never use in roadways, near motor vehicles, on or near steep inclines or steps, swimming pools or other bodies of water; always wear shoes, and never allow more than ____ rider(s) (b) RISK OF FIRE. Do not bypass. Replace only with ____. (Note: This warning must be placed at the location of any user replaceable fuse or circuit protection device. Manufacturer should state the part number or equivalent.  The packaging or point-of-sale literature shall state: <ul style="list-style-type: none"> <li>- The manufacturer’s recommended user age or weight limitations or both.</li> <li>- The warnings as specified for Battery-Operated Toys in 5.15.1.1</li> </ul>	

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† Instructions for Battery-Powered Ride-On Toys	ASTM F963-11, Section 4.25.10.9 / 6.5.3	Instruction shall contain guidance for safe use and maintenance which includes at least the following: <ul style="list-style-type: none"> <li>- Maximum weight or age limitation, or both, for safe use of toy</li> <li>- The kinds of surfaces which are appropriate for safe use of toy</li> <li>- The warnings as specified for Battery-Operated Toys in 5.15.1.1</li> <li>- Only use the battery(ies) specified by manufacturer, and</li> <li>- Only use the charger(s) specified by manufacturer</li> </ul>	
† Producer's Markings for Battery-Powered Ride-On Toys	ASTM F963-11, Section 4.25.10.9 / 7.2	Shall bear a permanent label or marking identifying the manufacturer or distributor, place of business, the model numbers, and a date of manufacture or date code that will allow determination of, at a minimum, the month and year of manufacture.	
† Safety Labeling for Magnets	ASTM F963-11, Section 5.17 & 5.3	Hobby and crafts items and science kit-type items for children over 8 years of age containing a loose as-received hazardous magnet or a loose as-received hazardous magnetic component shall bear the following label:  Warning This product contains (a) small magnet(s). Swallowed magnets can stick together across intestines causing serious infections and death. Seek immediate medical attention if magnet(s) are swallowed or inhaled.	
† Instruction for Toy Chests	ASTM F963-11, Section 4.27.5 / 6.2	Instructions for proper assembly and maintenance shall be provided in sufficient detail to describe the correct assembly of components, the resulting hazard if the lid support is not installed, and a description of how to determine if the support is working properly.	
† Producer's Marking for Toy Chests	ASTM F963-11, Section 4.27.5 / 7.2	<ul style="list-style-type: none"> <li>- Shall Be labeled permanently and conspicuously to identify the name and address of either the manufacturer, distributor or seller.</li> <li>- A code mark or other mark Shall Be provided on toy chest and either the packaging or shipping container that will identify the date (month and year) of manufacture and permit future identification of any given model.</li> </ul>	
† Instructions for Toys In Contact With Food	ASTM F963-11, Section 4.3.3.1 / 6.6	The packages or instructions, or both, shall be labeled to alert caregivers to wash the product thoroughly before use.	
† Marking for Tableware items for the State of California	CA Health & Safety Code, section 108870	All tableware items distributed in the State of California with lead or cadmium intentionally added or which are unintentionally contaminated must be permanently and indelibly marked with the name, or if the item is too small, a registered trademark, of the manufacturer or importer.	



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*† Chemistry Set Labeling	16 CFR 1500.83(a)(23)	Chemistry sets, science education sets and replacement chemicals for such sets, are exempt from section 2(p)(1) of the Federal Hazardous Substances Act if i.) The immediate container of hazardous chemical bears on its main panel the name, appropriate signal word, and additional statement "Read back (or side) panel before using" and bears on the back (or side) panel the remainder of the appropriate cautionary statement; ii.) The experiment manual or other instruction book or booklet bears the following caution statement within the borders of a rectangle and in the type size specified in 1500.121: WARNING – This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision. The outer carton bears on the main panel the caution statement specified in (ii).	
*† FDA Cosmetic Labeling	21 CFR 701 & 740 ASTM F963-11, Section 4.3	Cosmetic labeling shall be evaluated in accordance with the required size, format, contents, etc. as defined by the regulation.  Note: Vendor shall be responsible for the accuracy of information provided	
† Stuffed Toy Labeling	PA / MA / OH Stuffed Toy Law	Stuffing toys shall have a tab or label securely affixed which contains: - A statement that "All New Material" was used - Type of material - The assigned state registration number (Pennsylvania at a minimum) The name and principal place of business (city and state) of the manufacturer or vendor	
† Fiber Identification	16 CFR 303	Shall have a label securely affixed that contains: • The name and manufacturer or other marketing or registration number • The country of origin • The generic name and percentage of all fibers in the product	
*† Care Label/ Instruction	16 CFR 423	Shall have a label securely affixed that contains regular care (customary and routine) information (Care Labeling Rule).	
† Bedding And Upholstered Furniture Labeling	Association of Bedding and Furniture	All filling materials shall have a securely affixed tag or label which contains the following information: • The statement, "UNDER PENALTY OF LAW THIS TAG NOT TO BE REMOVED EXCEPT BY CONSUMER" • A description of the filling contents preceded by the statement, "ALL NEW FILLING MATERIALS CONSISTING OF" • The assigned state number (i.e. REG. NO. PA") • The statements, "Certification is made by the manufacturer that the materials used in this article are described in accordance with the law".	

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Attribute	Citation	Requirement / Limit	Result
† FCC Part 15 Marking & Labeling	FCC	<p>Shall meet the FCC labeling requirements if applicable. Marking shall include,</p> <ul style="list-style-type: none"> <li>- (FCC part 15V) Model number</li> <li>- (FCC part 15V) "This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."</li> <li>- (FCC part 15C) FCC ID</li> </ul> <p>Instruction manual shall include,</p> <ul style="list-style-type: none"> <li>- "Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."</li> <li>- "NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.</li> </ul> <p>However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> <li>• Reorient or relocate the receiving antenna.</li> <li>• Increase the separation between the equipment and receiver.</li> <li>• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li> <li>• Consult the dealer or an experienced radio/TV technician for help."</li> </ul>	
† Pressurized Container Labeling	16 CFR 1500.130	Self-pressurized containers shall conform to the labeling requirements as defined by 16 CFR 1500.130.	

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*† Formaldehyde Emissions (California, US)	Airborne Toxic Control Measure (ATCM) California Code of Regulations Title 17, § 93120	The covered products include finished goods composed of or containing: <ul style="list-style-type: none"> <li>- Particleboard (PB);</li> <li>- Medium Density Fiberboard (MDF);</li> <li>- Thin MDF (<math>\leq 8</math> mm in thickness);</li> <li>- Hardwood Plywood (HWPW) made with a composite core (veneer or composite).</li> </ul> <p>1. It is the responsibilities of the importers and manufacturers to maintain chain of custody documentation which certifies the use of composite wood materials that meet CARB requirements. The documentation shall be retained for two years and readily accessible upon request.</p> <p>2. The label should include the fabricator's name, the date the finished good was produced and a marking to denote that the product was made with HWPW, PB, or MDF that complies with the applicable Phase 1 or Phase 2 emission standards in section 93120.2(a). Finished goods shall be labeled as having been made with no-added formaldehyde based resins or ULEF resins if this is so for all HWPW, PB, or MDF used in fabricating the finished goods.</p>	
<b>Electrical / Thermal Energy</b>			
*† Electrically Operated Toys	16 CFR 1505 ASTM F963-11, Section 4.4	Toys operating from nominal 120-V branch circuits shall conform to the requirements of 16 CFR 1505.	
*† UL 696 Electric Toys	UL 696	Shall meet the requirements of UL 696.	
*† UL 697 Toy Transformers	UL 697	Shall meet the requirements of UL 697.	
*† UL 1310 Class 2 Power Units	UL 1310	Shall meet the requirements of UL 1310.	
*† UL 1492 Audio-Video Products and Accessories	UL 1492	Shall meet the requirements of UL 1492.	
*† CEC Marking (For AC/DC Adapter)	10 CFR 430 and CEC-400	Shall be marked with the following: <ul style="list-style-type: none"> <li>- Manufacturer's name or brand name or trademark</li> <li>- Model number</li> <li>- Date of manufacture with year and month (or smaller)</li> <li>- Efficiency Rating</li> </ul>	
*† Appliance Efficiency Regulations (Mandatory for California)	California Energy Commission CEC-400	Covered products offered for sale in the State of California or online must be registered and listed in the Appliance Efficiency Database.	
<b>Requirement for Wearing Apparel</b>			
† Quantitative (Complicate Fibre)	16 CFR 303 AATCC 20A	Shall be tested to substantiate fiber content. Shall not exceed a deviation of + 3% from the label as allowed for blends and no deviation for items labeled 100% of a fiber.	

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*† Care Label for Wearing Apparel	16 CFR 423	Shall be tested to substantiate care label content. Wearing apparel, which is not required to contain a care label but has a label present, shall be laundered according to label instructions only. A general appearance evaluation shall be conducted.	

**IMPORTANT NOTE:**

The information presented under the "Requirement / Limit" of this protocol is for information only and does not replace the content of the standard. Details of the requirements should be referred to the original standards.

**Remark:** Additional tests may be incurred subject to the final samples reviewed by Intertek.

**Key:** \*: Additional charge items †: Mandatory Requirement

**Appendix 1: Abuse Test Parameters for physical & Mechanical Test**

Test	Age (Months)	Numerical Value
Impact Test	0 to 18	10 X 4.5 ft ± 0.5 in. (137cm)
	Over 18 to 36	4 X 3.0 ft ± 0.5 in. (91cm)
	Over 36 to 96	4 X 3.0 ft ± 0.5 in. (91cm)
Torque Test	0 to 18	2 ± 0.2 in.-lbf (0.23 N· m)
	Over 18 to 36	3 ± 0.2 in.-lbf (0.34 N· m)
	Over 36 to 96	4 ± 0.2 in.-lbf (0.45 N· m)
Tension Test	0 to 18	10 ± 0.5 lbf (44.5 N)
	Over 18 to 36	15 ± 0.5 lbf (66.8 N)
	Over 36 to 96	15 ± 0.5 lbf (66.8 N)
Compression Test	0 to 18	20 ± 0.5 lbf (89.0 N)
	Over 18 to 36	25 ± 0.5 lbf (111.3 N)
	Over 36 to 96	30 ± 0.5 lbf (133.5 N)
Flexure Test	0 to 18	10 ± 0.5 lbf (44.5 N)
	Over 18 to 36	15 ± 0.5 lbf (66.8 N)
	Over 36 to 96	15 ± 0.5 lbf (66.8 N)

**Revision History**

Issue No.	Revision date	Changes	Prepared by	Approved by
1.0	Sep 01, 2011	Draft for approval	Alexander Ho	-
2.0	Mar 28, 2012	<b>Revised</b> - ASTM F963-11	Chris Chau	Taylor (Emily) on

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Jun 24, 2014	<p><b>Updated:</b></p> <ul style="list-style-type: none"> <li>- Lead Content in Surface Coating (Mandatory in state Illinois); Lead Content in Accessible Substrate Material (Mandatory in state Illinois); Soluble Heavy Metal Content in Surface Coating and Substrate; Hazardous Substances (TRA); Hazardous Chemical Test for Liquid; Art Materials LHAMA Evaluation</li> <li>- Revised ASTM F963-11 Section 4.10</li> <li>- Verify Label Claims; Instructions; Tracking Label;</li> </ul> <p><b>Added:</b></p> <ul style="list-style-type: none"> <li>- Mercury Content in Batteries; Mercury in Button Cell Batteries</li> <li>- Tris (2-chloroethyl) Phosphate (TCEP) and Tris (1,3-dichloro-2-propyl) Phosphate (TDCPP) Content</li> <li>- ASTM F963-11 Section 4.7.2 to Section 4.7.5; Section 4.34.2; Section 4.38.1</li> <li>- Requirements of Toy Chest</li> <li>- Luminous Transmittance</li> <li>- CEC Marking; Appliance Efficiency Regulations</li> </ul> <p><b>Removed:</b></p> <ul style="list-style-type: none"> <li>- Mercury-Containing and Rechargeable Battery Management Act</li> <li>- Extractable Lead from Crayons &amp; Art Supplies</li> <li>- FDA Regulation on Resinous and Polymeric Coatings, Non-Stick Surface</li> <li>- Lead/Cadmium Content on Ceramic - CA Health &amp; Safety 25249.5</li> <li>- FDA Food Ingredient List Evaluation</li> <li>- Parts Labeling; Use Labeling; Use and Care Instructions</li> </ul>	Wendy Mak	23 Jul 2014
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