


Protocol 602-W

Children's Plush & Stuff Toys

Performance Test	Test Method	Samples	Test Principle/Requirements	Rating (Section or exec. Summary which failed items can be referenced)
LABELING				
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples	Should be legibly marked with the following information: Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip) Product identification Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer (If applicable) Country of origin (if imported)	
Bedding Tag (if applicable)	Uniform Law Label	All Samples	Must be included with product.	
Toy Label	Uniform Law Label	All Samples	Must be included with product.	
Hangtag (Not applicable to décor/ornament products that have child appeal)	Visual Check	All Samples	SAFETY WARNING: Remove all hang tags and accompanying fasteners before giving this toy to a child.	
Federal, State And Local Government Requirements	ASTM F963 Section 5.1	All Samples	Shall be properly labeled according to all federal, state & local requirements.	
Age Grading	ASTM F963 Section 5.2	All Samples	Shall be properly labeled.	
Small Parts Warning * See pg 8 for Warning Labeling Requirements	ASTM F 963 Section 5.11	All Samples	 WARNING: CHOKING HAZARD – Small parts. Not for children under 3 yrs.	
Adult Assembly Labeling	ASTM F 963 Section 5.8 & 6.4	All Samples	Shall be properly labeled.	
CPSIA Tracking Label	Visual Check	All Samples	Kohl's Tracking label Requirements – Includes "Kohl's", the product style number or name, the manufacturer's factory number and the month and year the product was manufactured. Shall be permanently and distinguishably marked on the product.	
INSTRUCTIONAL LITERATURE & PRODUCER'S MARKING				
Promotional Statements And Other Materials	ASTM F963 Section 5.16	All Samples	Shall be properly labeled without inconsistencies.	
Instructional Literature	ASTM F963 Section 6	All Samples	Information and instructions shall provide safe use, or proper assembly, or both. Shall be legible and easy to read.	
Producer's Marking	ASTM F963 Section 7	All Samples	Shall be properly marked.	
Packaging	ASTM F963 Section A2.1	All Samples	Shall not include hazards when opened.	
CONSTRUCTION CHARACTERISTICS				
Material Quality	ASTM F963 Section 4.1 Visual Check	All Samples	Constructed of new or processed material.	
Polystyrene Foam Beads And Other Filing Materials	PA Stuffed Toys Regulations 47.317 (10) Visual check	All Samples	Polystyrene foam beads must be contained in an inner bag of proper construction. This also applies to any plastic pellets, sand and other filling materials classified as small parts by CPSC.	
*Stuffing Materials	ASTM F963 Section 4.3.7 & AOAC Chapter 16	All Samples	Loose fillers for stuffed toy shall be free of objectionable matter originating from animal infestation; splinters, metal chips and of other contaminants.	

PA Stuffed Toy Law (47.317) Tolerance	Title 34, Chapter 47, Section 47.317, "Tolerances of the Commonwealth of Pennsylvania Regulations for Stuffed Toys	All Samples	Loose fillers shall be visually evaluated for objectionable matter and labels shall be evaluated accordingly. Shall meet the requirements of the "Tolerance of the Commonwealth of Pennsylvania Regulation for stuffed Toys"	
Small Object	ASTM F963 Section 4.6	All Samples	16 CFR 1501. No small parts.	
Accessible Edges	ASTM F963 Section 4.7	All Samples	16 CFR 1500.49. No sharp edges.	
Projections	ASTM F963 Section 4.8	All Samples	Shall be free from hazardous projections.	
Accessible Points	ASTM F963 Section 4.9	All Samples	16 CFR 1500.48. No sharp points.	
Plastic Film	ASTM F963 Section 4.12	All Samples	Shall be > 0.00125". Alternatively sheeting less than 0.00125" thickness shall be perforated with defined holes.	
Cords, Straps And Elastics	ASTM F963 Section 4.14	All Samples	< 12" length; < 14" loop or containing a breakaway feature; > 12" long for pull toys shall have no beads or other attachments that could tangle to form a loop.	
Holes, Clearance & Accessibility of Mechanisms	ASTM F963 Section 4.18	All Samples	No finger pinching or crushing hazard. No entrapment hazards.	
*Moisture Content (%) (If Wood Toy)	Std. Measure	All Samples	Should not exceed 12% for wood based material only.	
PERFORMANCE TESTING				
*Flammability	ASTM F963 Section 4.2	1 Sample	16 CFR 1500.44 (Solid) 16 CFR 1610 (Textile fabrics)	
Normal Use Tests	ASTM F963 Section 8.5	1 Sample	No safety hazards.	
Washable Toys	ASTM F963 Section 8.5.1	1 Sample	No safety hazards.	
Abuse Testing	ASTM F963 Section 8.6	1 Sample	No safety hazards.	
Drop Test	ASTM F963 Section 8.7.1	1 Sample	16 CFR 1500 (Table 5, F 963-11)	
Torque Test For Removal Of Components	ASTM F963 Section 8.8	1 Sample	16 CFR 1500 (Table 5, F 963-11)	
Tension Test For Removal Of Components	ASTM F963 Section 8.9	1 Sample	16 CFR 1500 (Table 5, F 963-11)	
Tension Test For Seams - Including arm & leg pull test	ASTM F963 Section 8.9.1	1 Sample	16 CFR 1500 (Table 5, F 963-11)	
Compression Test	ASTM F963 Section 8.10	1 Sample	16 CFR 1500 (Table 5, F 963-11)	
Flexure Test	ASTM F963 Section 8.12	1 Sample	16 CFR 1500 (Table 5, F 963-11)	
Pompoms	ASTM F963 Section 8.16	1 Sample	Detached pompom must not pass entirely through the 1.75 inch test fixture.	
*Sound Producing Toys	ASTM F963 Section 4.5	1 Sample	Close-to-the-ear toys < 65 dB (A)	
*Shedding Of High Pile Fiber (Having a Free Length of 3/4 inch or More)	Kohl's TM 37	1 Sample Or Fabric Swatch	Measurement of fiber loss using 3M Scotch masking tape by applying a 1-lb. weight up and down in a defined area of 2 In. x 4 In. This is repeated 4 times in the same area (one cycle). Record fiber loss after each cycle - maximum of 6.25 mg/sq. In. Repeat the test 4 additional times at different areas.	
#Claim Verification (If Claimed)	Visual Check / Actual Use	1 Sample	All designs and features must conform to actual claim.	Claim:
COLORFASTNESS				
*Dry Crocking	AATCC8/116	1 Sample	Class 4.0	
*Wet Crocking	AATCC8/116	1 Sample	Class 3.0	
*Resistance To Saliva	DIN 53160 (Without Perspiration)	1 Sample	Any staining due to dye migration must be class 3.0 Min. (AATCC gray scale).	
PRODUCTS HAVING ELECTRICALLY OPERATED PART				
Electrically Operated Parts	Refer to Protocol 603	All Samples	Compliance to applicable test lines in protocol	
ANALYTICAL				

*Heavy Metals content	ASTM F963 Section 8.3/ 16 CFR 1251	1 Sample	Must comply with requirement. Lead content ≤ 90 mg/kg (for surface coating) ≤ 100 mg/kg (for substrate) Extractable Cadmium (for metal small part) ≤ 200 µg Soluble heavy metal (surface and substrate (ASTM F963, 4.3.5, Table 1 and 2) Unfinished and untreated wood as defined in 16 CFR 1251 will not be tested																		
*Lead In Scrapable Surface Coating	CPSC-CH- E1003-09	1 Sample	≤40 ppm (0.004% by weight). (IL Lead Poisoning Prevention Act)																		
*Lead In Substrate Material (Accessible Component)	CPSC-CH- E1001-08 and/or CPSC-CH- E1002- 08	1 Sample	≤100 ppm (0.010% by weight).																		
*Phthalates In Plasticized Material (DEHP, BBP, DBP, DIDP, DINP, DnOP, DnHP, DCHP) Accessible Components Only	CPSC-CH- C1001-09.3	1 Sample	Not exceeding 0.1% by weight (each).																		
Phthalates content	Consumer Product Safety Improvement Act of 2008 / 16 CFR 1307 / CPSC-CH-C1001- 09.4 (Mod)	1 Sample	Children's toys and childcare articles, before and after use and abuse testing, shall not contain concentrations of more than 0.1% BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP or DCHP individually.																		
* CA Prop 65	Refer to Protocol 1300	All Samples	All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.																		
Toxicity & Irritancy by Toxicological Risk Assessment (TRA) Applicable to below components : All toy cosmetics, liquids, pastes, putties, gels and powders regardless of claim Other materials bearing a "NON- TOXIC" claim on samples and/or its packaging	ASTM F963 / 16 CFR 1500.3	1 Sample	Toxicity Risk Assessment shall be conducted to substantiate the compliance of the regulation. In lieu of testing, test report can be submitted if dated within two years.																		
*LHAMA Toxicological Review	16 CFR 1500.14 (b) (8)	1 Sample	Art material product formulation (s) and associated label shall have a chronic health hazard review by a certified toxicologist. In lieu of testing, a 3rd party test report can be submitted to lab for document review.																		
*Microbial Contamination (Total Bacterial Count, Total Combined Molds & Yeast Count and avian feather used in toy)	USP <61> & USP<62>/ CTFA Microbiology Guidelines M-1 and M- 2	1 Sample	<table border="1"> <thead> <tr> <th>Microbial</th> <th>Limit Value</th> </tr> </thead> <tbody> <tr> <td>Total Viable Count for aerobic mesophilic micro-organism</td> <td>≤5X10² cfu/g (Infant product and products which have a high likelihood of being used in the area of the eye)</td> </tr> <tr> <td>Total Bacterial Count</td> <td>≤5X10³ cfu/g (all other product)</td> </tr> <tr> <td>Total Combined Moulds & Yeast Count</td> <td></td> </tr> <tr> <td>Escherichia coli</td> <td>Absent/ g</td> </tr> <tr> <td>Salmonella</td> <td>Absent/ g</td> </tr> <tr> <td>Coagulasepositive</td> <td>Absent/ g</td> </tr> <tr> <td>Staphylococcus aureus</td> <td>Absent/ g</td> </tr> <tr> <td>Pseudomonas aeruginosa</td> <td>Absent/ g</td> </tr> </tbody> </table>	Microbial	Limit Value	Total Viable Count for aerobic mesophilic micro-organism	≤5X10 ² cfu/g (Infant product and products which have a high likelihood of being used in the area of the eye)	Total Bacterial Count	≤5X10 ³ cfu/g (all other product)	Total Combined Moulds & Yeast Count		Escherichia coli	Absent/ g	Salmonella	Absent/ g	Coagulasepositive	Absent/ g	Staphylococcus aureus	Absent/ g	Pseudomonas aeruginosa	Absent/ g
Microbial	Limit Value																				
Total Viable Count for aerobic mesophilic micro-organism	≤5X10 ² cfu/g (Infant product and products which have a high likelihood of being used in the area of the eye)																				
Total Bacterial Count	≤5X10 ³ cfu/g (all other product)																				
Total Combined Moulds & Yeast Count																					
Escherichia coli	Absent/ g																				
Salmonella	Absent/ g																				
Coagulasepositive	Absent/ g																				
Staphylococcus aureus	Absent/ g																				
Pseudomonas aeruginosa	Absent/ g																				

			Shigella sp.(Avian feather only)	Absent/ g
			In lieu of testing, test report can be submitted if dated within two years.	
*Efficacy of antimicrobial preservation	USP <51> + CTFA	10 samples	<p><i>For Topical products:</i> <i>Bacteria (Staphylococcus aureus, E. Coli, Pseudomonas aeruginosa)</i></p> <p><i>Not less than 2.0 log reduction from the initial count at 14 days, and no increase from the 14 days' count at 28 days</i></p> <p><i>Yeast and Molds (Candida albicans & Aspergillus niger)</i></p> <p><i>No increase from the initial calculated count at 14 and 28 days</i></p> <p><i>In lieu of testing, a test report can be submitted if dated within two years.</i></p>	
*Magnets	ASTM F963 Section 4.38	All Samples	<p>Shall Not employ Small AND Powerful magnet where :</p> <p>Small – component that can entirely fit within small part cylinder before / after abuse</p> <p>Powerful – magnet component with magnet flux index greater than 50kG2mm2</p>	
Asbestos in toys and other articles for children under the age of 16 (For Connecticut) Suggested material : crayon, modeling clay, powder and chalk	ISO22262-1 / NIOSH 9000	1 Sample	<p>Connecticut, Chapter 420d State Child Protection Act, Sec. 21a-337. (Formerly Sec. 19-560). Prohibited acts. Exceptions.</p> <p>Prohibited</p>	

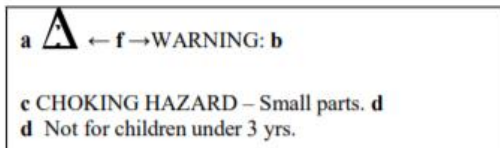
***Liquid Toxicity: (Applicable only to Liquid Styles)**

-Presence Of Ethylene Glycol (Children's Products)	GC/GCMS	1 Sample	16 CFR 1500.231 Must not be present
-Presence Of Diethylene Glycol (Children's Products)	GC	1 Sample	16 CFR 1500.231 Must not be present
-Methanol (Children's Products)	GC	1 Sample	16 CFR 1500.231 Must not be present
-Mercury (Children's Products)	AAS	1 Sample	16 CFR 1500.231 Must not be present
-Methylene Chloride (Children's Products)	GC/MS	1 Sample	16 CFR 1500.231 Must not be present
-Petroleum Distillates (Children's Products)	GC/MS	1 Sample	16 CFR 1500.231 Must not be present
-Toluene (Children's Products)	GC/MS	1 Sample	16 CFR 1500.231 Must not be present
-Xylene (Children's Products)	GC/MS	1 Sample	16 CFR 1500.231 Must not be present

ADDITIONAL NOTE:

*Please refer to Kohl's preferred third party labs for individual pricing and samples.

Warning Labeling Requirements:



Area of Principal Display Panel (Square inches)	Triangle Height	Signal Word	Hazard Statement	Other Cautionary Material	Size f
	Size a	Size b	Size c	Size d	
0-2	3/64"	3/64"	3/64"	1/32"	width
> 2-5	1/16"	1/16"	3/64"	3/64"	
> 5-10	3/32"	3/32"	1/16"	1/16"	

> 10-15	7/64"	7/64"	3/32"	1/16"	At least the of "W"
> 15-30	1/8"	1/8"	3/32"	5/64"	
> 30-100	5/32"	5/32"	7/64"	3/32"	
> 100-400	1/4"	1/4"	5/32"	7/64"	
> 400	1/2"	1/2"	1/4"	5/32"	

PROTOCOL VERSION	DESCRIPTION OF CHANGE	Revised By	Approved By
602 – 0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
602 – 1	Polystyrene Foam Beads and Other Filing Materials. Update ASTM F 963-03, Sound producing toys, Heavy Metals, Pompoms, Battery operated toys labeling	Simon Leung Oct 10, 2004	Roger Mayerson Oct 22, 2004
602 – 2	Revise Toys Requiring Cautionary Labeling	Simon Leung Jan 17, 2005	Roger Mayerson Jan 20, 2005
602 – 3	Updated Toys Requiring Cautionary Labeling and added new requirement – Stuffing Materials	Simon Leung May 19, 2005	Ro Jain Jun 01, 2005
602 – 4	Updated to ASTM F 963-07. Added Colorfastness Tests. Added Analytical Tests to Meet CPSIA of 2008. Price Adjustment.	Simon Leung Oct 10, 2008	Ro Jain Oct 13, 2008
602 – 5	Updated to ASTM F 963-08. Added CPSIA tracking label information for children’s products.	Simon Leung June 30, 2009	Ro Jain June 30, 2009
602 – 6	Removed 100ppm from lead in substrate	Elizabeth Armstrong July 13, 2009	Ro Jain July 13, 2009
602 – 7	Changed the Protocol Title. Added ASTM F963 Abuse Testing. Updated the Lead in Substrate Material & Phthalates in Plasticized Materials Test Methods to CPSC. Add DnHP	Simon Leung Oct 15, 2009	Ro Jain Oct 31, 2009
602-A	Changed protocol number from 602-7 to 602-A, changed scrapable surface lead to 40ppm from 90ppm for IL law. Added size requirements for warning labels. Price adjustment	Elizabeth Armstrong Dec. 21, 2009	Ro Jain Dec. 21, 2009
602-B	Changed test method from ASTM E1613/E to CPSC-CH-E1003-09 for lead in scrapable surface	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
602-C	Updated test method for scrapable surface coating to CPSC method, changed lead in substrate from 300ppm to 100ppm	Elizabeth Armstrong February 14, 2011	Ro Jain February 14, 2011
602-D	Updated phthalates pricing, added for accessible components only to phthalates testing	Elizabeth Armstrong July 21, 2011	Ro Jain July 21, 2011
602-E	Updated ASTM F963 from 2008 version to 2011 version, add the pricing of extractable cadmium	Elizabeth Armstrong April 2, 2012	Ro Jain April 2, 2012
602-F	Separate the test line of Prop 65 to supplementary protocol	John Wong Mar 15, 2013	Ro Jain April 15, 2013
602-G	Add phthalates requirements; Add TRA, LHAMA, USP 51, USP61+62, 16 CFR 1500.231 and flashpoint requirements; Remove B/O toys requirements to the new supplemental protocol of electrically operated toys	Viesent Che Nov 5, 2013	Ro Jain Feb. 10, 2014
602-H	Updated colorfastness and lead test pricing in additional charge section	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014
602-I	Rename all in-house methods	Candy Chan Sep. 4, 2014	Jeetendra Shelatkar Oct 27, 2014
602-J	Add Magnet test requirement Update the page number of small part warning	Quincy Chan Feb 2, 2015	Jeetendra Shelatkar Feb 2, 2015
602-K	Add asbestos requirement	Kelly Peng Aug 18, 2015	Jeetendra Shelatkar Aug 18, 2015
602-L	Updated test method for heavy metals content to include unfinished and untreated wood as defined will not be tested	Elizabeth Armstrong Jan 8, 2016	Jeetendra Shelatkar Jan 8, 2016
602-M	Update of ASTM-F963-16	Ken Tsai Feb 6, 2017	Elizabeth Armstrong Feb 13, 2017
602-N	Remove of 16 CFR 1240 Add magnet requirement with reference to ASTM-F963	Ken Tsai Jun 5, 2017	Elizabeth Armstrong June 9, 2017
602-O	Updated phthalates requirements to include DCHP	Elizabeth Armstrong Nov 28, 2017	Elizabeth Armstrong Nov 28, 2017
602-P	CPSIA Phthalates update for April 2018	Teana Robinette January 8, 2018	Teana Robinette January 8, 2018
602-Q	Update of ASTM-F963-17	Ken Tsai Feb 9, 2018	Elizabeth Armstrong Feb 23, 2018
602-R	Update Version of Phthalate content from CPSC-CH-C1001-09.3 to CPSC-CH-C1001-09.4 (no letter change for this update)	Teana Robinette June 4, 2018	Teana Robinette June 4, 2018
602-S	Added in PA Stuff Toy Law	Elizabeth Armstrong April 18, 2019	Elizabeth Armstrong April 18, 2019
602-T	Added Toy Label and edited Bedding Label to be applicable	Charlene Swanson July 2019	Charlene Swanson July 2019
602-U	Updated hangtag requirements	Elizabeth Armstrong Sept 13, 2019	Elizabeth Armstrong Sept 13, 2019
602-V	Updated tension test to include testing arm & leg pull test	Elizabeth Armstrong July 2021	Elizabeth Armstrong July 2021

602-W	Removed year from the ASTM 963 methods	Charlene Swanson February 2024	Charlene Swanson February 2024
-------	--	-----------------------------------	-----------------------------------