



# CONSUMER TESTING LABORATORIES, Inc.

HARDLINES TESTING LABORATORY • 611 DREAM VALLEY ROAD • ROGERS, AR 72756  
PHONE: (479) 636-8782 • FAX: (479) 636-8961 • [customer\\_service.hardlines.us@consumertesting.com](mailto:customer_service.hardlines.us@consumertesting.com)

## Evaluation of Test Results

Lab Report No: ARHL0712642

Issue Date: May 23, 2019

Item Description: 35 & 200 Piece Puzzle (Test Results Cover All Stock Puzzles with Exception to PZ-269 and PZ-202)

Rating: **Pass**

CLIENT: The Chest Inc

COUNTRY OF ORIGIN: United States

SOURCING OFFICE: Not Applicable

SUPPLIER NAME: Chest LLC (The)

STYLE NUMBER: PZ-202, PZ-236

REASON FOR TESTING: Evaluation of the client requested requirements

\*\*\* Please see the following pages for additional item information \*\*\*

FACTORY NAME: Not Applicable

FACTORY NUMBER: Not Applicable

### ADDITIONAL INFORMATION

1. Testing for the following requirements was conducted by Consumer Testing Laboratories, Inc., 611 Dream Valley Road, Rogers, Arkansas 72756. (479)636-8782.
2. The sample complies with Section 4.3.5.1(2) (ASTM F963-17), Surface Coating Materials - Soluble Test for Metals.
3. The sample complies with Section 4.7 (ASTM F963-17), Accessible Edges (except labeling and/or instructional literature requirements).
4. The sample complies with Section 4.8 (ASTM F963-17), Projections (except bath toy projections).
5. The sample complies with Section 4.9 (ASTM F963-17), Accessible Points (except labeling and/or instructional literature requirements).
6. The sample complies with 16 CFR 1307, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.
7. The sample complies with 16 CFR Part 1303, Lead Paint Regulation.

## Specialists in the Evaluation of Consumer Products Since 1952

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- 8. The sample complies with the requirements of 16 CFR 1500.48 Technical Requirements for Determining a Sharp Point in Toys and other Articles Intended for use by Children under 8 years of age.
- 9. The sample complies with Section 4.6 (ASTM F963-17), Small Objects (except labeling and/or instructional literature requirements).

**ADDITIONAL SAMPLE INFORMATION**

<b>SIZE(S)</b>	<b>COLOR(S)</b>
Not Applicable	Not Applicable
<b>PO NUMBER(S)</b>	
Not Applicable	
<b>UPC CODE(S)</b>	
Not Applicable	
<b>ITEM NUMBER(S)</b>	
Not Applicable	
<b>QUOTE ID(S)</b>	
Q011759	

**Identifier Association Grid**

DESCRIPTION	STYLE	TESTED
35 Piece Puzzle	PZ-236	Yes
200 Piece Puzzle	PZ-202	Yes

CONSUMER TESTING LABORATORIES, INC.



Dannon Rose

CATEGORY MANAGER, HARDLINES TESTING

CONSUMER TESTING LABORATORIES, INC.

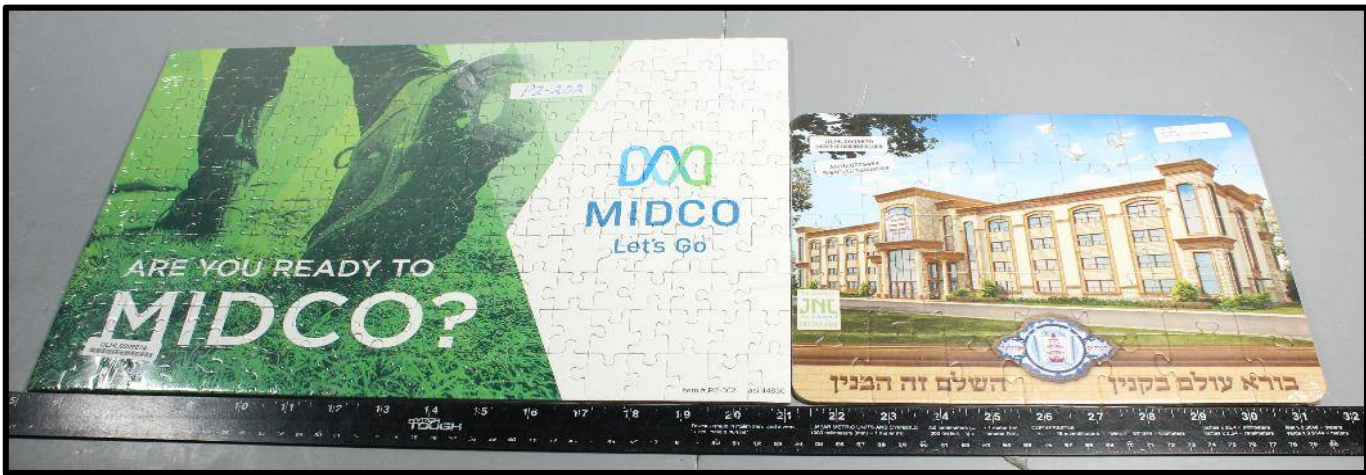


Chris Dahl

DIRECTOR, HARDLINES TESTING

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# TOYS

## (Regulatory Compliance)

### TECHNICAL WORKSHEET

**SAMPLE:** 35 & 200 Piece Puzzle

**Labeled Age:** All Ages -application    **Tested Age:** All Ages

4. ASTM F963 SAFETY REQUIREMENTS			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.1	Material Quality	Pass	
4.2	Flammability		
Annex A5	Test Procedure for Solids & Soft Toys	Pass	
Annex A6	Test Procedure for Fabrics	---	N/A - No applicable materials
4.3	Toxicology		
4.3.1	All toy components meet the applicable requirements of Restricted Substances and Hazardous Components worksheet for Children's Products - 26-35IC (attached)	Pass	See attached report for details
4.3.3 & 4.3.3.2	Food Contact - Toy components intended to be in contact with food, and ceramic toy components intended or likely to hold food meet the requirements of Food Contact Product worksheet 14-105IC (attached)	---	N/A - Not a food contact toy
4.3.4	Cosmetics: Toys which include cosmetics meet the requirements of the Cosmetic worksheet (attached)	---	N/A - Not a cosmetic product
4.3.5.1 (2) & 4.3.5.2	Toys shall meet the applicable requirements for Heavy Elements in Substrates and Coatings as outlined in Section 8.3	Pass	See attached report for details
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather origin (e.g. "marabou items derived from poultry feathers) meet the requirements for cleanliness, shelf life degradation and contamination as outlined in Section 8.4.1 & 8.4.2	---	N/A - No applicable materials
4.3.6.1	Water Filled Toys - Water used in the filling of toys shall comply with the bacteriological standards for USP Purified Water. Specifically, a test report must be submitted which indicates that the water (taken from a finished toy) has a heterotrophic plate count of < 10 colony forming units per ml (cfu/ml) AND the absence of coliform bacteria		
	Heterotrophic Plate Count: <u>---</u> cfu/ml	---	N/A - No applicable materials
	Coliform Bacteria: <u>---</u>	---	N/A - No applicable materials
4.3.7	Stuffing Materials	---	N/A - Not a stuffed toy

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<b>4. ASTM F963 SAFETY REQUIREMENTS (continued)</b>			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.5	Sound-Producing Toys (Test method §8.20)	---	N/A - Not a sound producing toy
4.6	Small Objects		
4.6.2	Mouth Actuated Toys (Test method §8.13)	---	N/A - Not a mouth actuated toy
4.6.2.2	Mouth Actuated Projectile Toys (Test method §8.13.2)	---	N/A - Not a stuffed toy
4.7	Accessible Edges	Pass	
4.8	Projections	Pass	
4.9	Accessible Points	Pass	
<b>4. ASTM F963 SAFETY REQUIREMENTS (continued)</b>			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.10	Wires & Rods	---	N/A - No applicable materials
4.11	Nails and Fasteners	---	N/A - No applicable materials
4.12	Packaging Film (Test method §8.22)	---	N/A - Shrink wrap
4.13.1	Folding Mechanisms & Hinges		
4.13.1.1	Folding Mechanisms - Locking device or other means (Test method §8.26.1)	---	N/A - No folding mechanisms
4.13.1.2	Folding Mechanisms - Single Action / Double Action (Test method §8.26.2)	---	N/A - No folding mechanisms
<b>4. ASTM F963 SAFETY REQUIREMENTS (continued)</b>			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.13.2	Hinge-Line Clearance	---	N/A - No hinges
4.14	Cords, Straps, & Elastics		
4.14.1	Cords, Straps, & Elastics in Toys	---	N/A - No cords, straps or elastics
4.14.2	Self Retracting Pull Cords	---	N/A - No self-retracting pull cords
4.14.3	Pull Toys	---	N/A - Not a pull-toy
4.14.4	Strings, & Lines for Flying Devices	---	N/A - No flying device line or string
4.14.5	Cords on Toy Bags Intended for Children up to 18 Months	---	N/A - No cords, straps or elastics
4.15	Stability & Overload Requirements		
4.15.1	Stability of Ride-On Toys & Seats		
4.15.2	Sideways Stability Requirements (Test method §8.15)	---	N/A - Not a ride-on toy or seat
4.15.3	Fore & Aft Stability (Test method §8.15)	---	N/A - Not a ride-on toy or seat
4.15.4	Stability of Stationary Floor Toys	---	N/A - Not a ride-on toy or seat
4.15.5	Overload Requirements for Ride-On Toys & Seats (Test Method §8.28)	---	N/A - Not a ride-on toy or seat
4.15.6	Wheeled Ride-On Toys (Test method §8.21)	---	N/A - Not a wheeled ride-on toy
4.16	Confined Spaces	---	N/A - No applicable materials
4.16.3	Toys that Enclose the Head	---	N/A - No applicable materials
4.17	Wheels, Tires & Axles (Test methods §8.11.1 - 8.11.3) Tests for Tire Removal & Snap-in Wheel & Axle Removal	---	N/A - No applicable materials
4.18	Holes, Clearances & Accessibility of Mechanisms		
4.18.1	Accessible Clearances for Moveable Segments	---	N/A - No applicable materials
4.18.2	Circular Holes in Rigid Materials	---	N/A - No applicable materials
4.18.3	Chains & Belts	---	N/A - No applicable materials

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4. ASTM F963 SAFETY REQUIREMENTS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.18.4	Inaccessibility of Mechanisms	---	N/A - No applicable materials
4.18.5	Winding Keys	---	N/A - No applicable materials
4.18.6	Coil Springs	---	N/A - No applicable materials
4.19	Simulated Protective Devices	---	N/A - No applicable materials
4.20.2	Toy Pacifiers	---	N/A - No applicable materials
4.21	Projectile Toys (Test method §8.14)	---	N/A - Not a projectile toy
4.22	Teethers and Teething Toys	---	N/A - Not a teether or teething toy
4.23	Rattles	---	N/A - Not a rattle
4.24	Squeeze Toys	---	N/A - Not a squeeze toy
4.25	Battery Operated Toys		
4.25.1	Markings	---	N/A - Not a battery operated toy
4.25.2	DC Potential	---	N/A - Not a battery operated toy
4.25.3	Charging of Non-rechargeable batteries	---	N/A - Not a battery operated toy
4.25.4 & 5	Battery Accessibility	---	N/A - Not a battery operated toy
4.25.6	Circuit Isolation	---	N/A - Not a battery operated toy
4.25.7	Battery Surface Temperature (Test method §8.17)	---	N/A - Not a battery operated toy
4.26	Toys Intended to be Attached to a Crib or Playpen		
4.26.1	Protrusions	---	N/A - Not a crib or playpen toy
4.26.2	Crib Mobiles - Safety Labeling	---	N/A - Not a mobile
	Crib Mobiles - Instructional Literature	---	N/A - Not a mobile
4.26.3	Crib & Playpen Toys - Safety Labeling	---	N/A - Not a crib or playpen toy
	Crib & Playpen Toys - Instructional Literature	---	N/A - Not a crib or playpen toy
4.27	Stuffed & Beanbag Type Toys (Seam Strength Test §8.9.1)	---	N/A - Not a stuffed/beanbag type toy
4.29	Art materials meet the requirements of the Restricted Substances and Hazardous Components Testing for Art Materials worksheet 26-38IC (attached)	---	N/A - No applicable materials
4.31	Balloons		
	Balloons included with toys meet the requirements of the Balloon worksheet 3-50 (attached)	---	N/A - No applicable materials
4.32 & 32.1	Certain Toys with Spherical Ends	---	N/A - No applicable materials
4.32.2	Nail, Bolt, or Screw Shapes	---	N/A - No applicable materials
4.32.3	Preschool Play Figures	---	N/A - No applicable materials
4.34	Balls	---	N/A - No applicable materials
4.35	Pompoms (Test method §8.16)	---	N/A - No pom-poms
4.36	Hemispheric - Shaped Objects	---	N/A - No applicable materials
4.37	Yo-Yo Elastic Tether Toys (Test method §8.24)	---	N/A - Not a yo-yo elastic tether toy
4.38	Magnets (Test method §8.25)	---	N/A - No magnets
4.39	Jaw Entrapment in Handles & Steering Wheels	---	N/A - No applicable materials
4.40	Expanding Materials (Test method §8.30)	---	N/A - No applicable materials

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5. ASTM F963 LABELING REQUIREMENTS																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
5.3	Safety Labeling Requirements																				
5.4	Aquatic Toys	---	<i>N/A - No applicable materials</i>																		
5.5	Crib & Playpen Toys	---	<i>N/A - Not a crib or playpen toy</i>																		
5.6	Mobiles	---	<i>N/A - Not a mobile</i>																		
5.7	Stroller and Carriage Toys	---	<i>N/A - No applicable materials</i>																		
5.8	Toy Intended to be Assembled by an Adult	---	<i>N/A - No applicable materials</i>																		
5.9	Simulated Protective Devices	---	<i>N/A - No applicable materials</i>																		
5.10	Toys with Functional Sharp Edges or Points	---	<i>N/A - No applicable materials</i>																		
5.11	Small Objects, Small Balls, Marbles																				
5.11.1 - 5.11.1.4	Safety Label - Formatting Requirements																				
5.11.2	Small Parts	---	<i>N/A - Not requested by the client</i>																		
5.11.3	Small Balls	---	<i>N/A - No applicable materials</i>																		
5.11.4	Marbles	---	<i>N/A - No applicable materials</i>																		
5.15	Battery Operated Toys	---	<i>N/A - Not a battery operated toy</i>																		
5.15.2	Button or Coin Cell Batteries	---	<i>N/A - Not a battery operated toy</i>																		
5.16	Promotional Materials	---	<i>Packaging not provided</i>																		
5.17	Magnets	---	<i>N/A - No magnets</i>																		
6. ASTM F963 INSTRUCTIONAL LITERATURE																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
6.1	Definitions & Descriptions	---	<i>N/A - Not requested by the client</i>																		
6.2	Crib & Playpen Toys	---	<i>N/A - Not a crib or playpen toy</i>																		
6.3	Mobiles	---	<i>N/A - Not a mobile</i>																		
6.4	Toys Intended to be Assembled by an Adult	---	<i>N/A - No labeled claims</i>																		
6.5	Battery Operated Toys	---	<i>N/A - Not a battery operated toy</i>																		
6.7	Toys in Contact with Food	---	<i>N/A - Not a food contact toy</i>																		
7. ASTM F963 PRODUCER'S MARKINGS																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
7.1	Producer's Markings	---	<i>N/A - Not requested by the client</i>																		
8. ASTM F963 TEST METHODS																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
8.3	<b>Test Methods for Determination of Heavy Element Content in Toys, Toy Components and Materials</b> <table border="1" data-bbox="347 1619 902 1927"> <thead> <tr> <th colspan="2">Heavy Element Requirements Table</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>0.009% (90-ppm, 90-mg/kg)</td> </tr> <tr> <td>Mercury</td> <td>0.006% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Antimony</td> <td>0.006% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Arsenic</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Barium</td> <td>0.1% (1000-ppm, 1000-mg/kg)</td> </tr> <tr> <td>Cadmium</td> <td>0.0075% (75-ppm, 75-mg/kg)</td> </tr> <tr> <td>Chromium</td> <td>0.006% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Selenium</td> <td>0.05% (500-ppm, 500-mg/kg)</td> </tr> </tbody> </table>	Heavy Element Requirements Table		Lead	0.009% (90-ppm, 90-mg/kg)	Mercury	0.006% (60-ppm, 60-mg/kg)	Antimony	0.006% (60-ppm, 60-mg/kg)	Arsenic	0.0025% (25-ppm, 25-mg/kg)	Barium	0.1% (1000-ppm, 1000-mg/kg)	Cadmium	0.0075% (75-ppm, 75-mg/kg)	Chromium	0.006% (60-ppm, 60-mg/kg)	Selenium	0.05% (500-ppm, 500-mg/kg)		
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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.3.5	<p><b><u>Heavy Elements in Surface Coatings</u></b></p> <p>All Surface Coatings meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicates that the surface coating(s) do not exceed the heavy element requirements in the table above:</p> <p style="text-align: right;">_____ <u>---</u> Y/N</p> <p style="text-align: center;">Test report date: _____</p> <p><b>OR</b></p> <p>Heavy element screening indicates that the total heavy element content in the toy surface coatings do not exceed the above limits</p> <p style="text-align: right;">_____ <u>Yes</u> Y/N</p> <p><b>OR</b></p> <p>Soluble element testing indicates that the surface coating(s) scraped from the product do not contain the above compounds in excess of the limits specified above</p> <p style="text-align: right;">_____ <u>---</u> Y/N</p>	<b>Pass</b>	<a href="#">See attached report for details</a>
8.3.5	<p><b><u>Soluble Heavy Elements in Substrates</u></b></p> <p><i>For the purposes of this requirement, the following criteria are considered reasonably appropriate for the classification of toys or parts likely to be sucked, mouthed, or ingested:</i></p> <p>(1) <i>All toy parts intended to be mouthed or contact food or drink, components of toys which are cosmetics, and components of writing instruments categorized as toys,</i></p> <p>(2) <i>Toys intended for children less than 6 years of age, that is all accessible parts and components where there is a probability where those parts &amp; components may come in contact with the mouth.</i></p> <p><i>Packaging materials are included if they are intended to be retained as part of the toy or are intended to provide play value.</i></p> <p><i>This requirement applies to all accessible toy or toy component substrate materials except glass, metal and ceramic.</i></p> <p><i>For accessible glass, metal and ceramic toys, or toy components, test only if the glass, metal or ceramic toy or toy component fits entirely within the small parts cylinder.</i></p> <p><i>Accessibility of parts is determined as defined in ASTM F963 § 3.1.2 either before or after abuse testing described in § 8.7-8.10 &amp; 8.12</i></p>		



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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
	<p>Toys, and toy components which, due to their inaccessibility, size, mass, function, or other characteristics, cannot be sucked, mouthed or ingested are not subject to this requirement. (see ASTM F963 Note 4)</p> <p>In addition, materials now or in future listed in the most current revision of 16 CFR 1500.88 or 16 CFR 1500.91 as exempt from testing and certification requirements are excluded from soluble lead testing for the purposes of determining compliance. §4.3.5.2(1)(e)</p> <p>For the remaining seven heavy elements, only natural untreated wood, paper and paperboard are excluded from testing and certification.</p> <p>Applicable toy substrates meet one of the following:</p> <p>An accredited 3rd party laboratory test report (dated within 1 year) indicating soluble or total heavy elements in the toy substrates do not exceed the limits outlined in the Heavy Elements Requirements Table (above)</p> <p style="text-align: right;">--- Y/N</p> <p>Test report date: ---</p> <p><b>OR</b></p> <p>Heavy element screening indicates that the total heavy element content in the toy substrates does not exceed the limits outlined in the Heavy Elements Requirements Table (above)</p> <p>HDXRF screening will be applied unless the client specifically requests wet chemistry screening method.</p> <p style="text-align: right;">--- Y/N</p> <p><b>OR</b></p>	---	N/A - No applicable materials
8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.3.5	<p>Soluble element testing indicates the heavy element content in the toy substrates do not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p> <p><b>AND</b></p> <p><b><u>Special Soluble Cadmium</u></b></p> <p><i>This requirement applies to metallic small parts only</i></p> <p>Metallic toys or metallic toy components that are small parts before or after abuse testing, meet one of the following:</p> <p>An accredited 3rd party laboratory test report (dated within 1 year) indicates the extracted cadmium content of the toy and/or any applicable toy component does not exceed 200-µg when tested per ASTM F963 § 8.3.5.5(3) - Test Procedure - Special Soluble Cadmium</p> <p style="text-align: right;">--- Y/N</p> <p>Test report date: ---</p> <p><b>OR</b></p> <p>Heavy element screening (ASTM F963 § 8.3.1) indicates the cadmium content does not exceed 0.0075% (75-ppm, 75-mg/kg)</p> <p style="text-align: right;">--- Y/N</p> <p><b>OR</b></p>	---	N/A - No applicable materials

8. ASTM F963 TEST METHODS (continued)																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
	<p>Testing indicates the extracted cadmium content does not exceed 200-µg when tested per ASTM F963 § 8.3.5.5(c) Test Procedure Special Soluble Cadmium</p> <p style="text-align: right;">--- Y/N</p> <p><b>Maximum Soluble Elements in Packaging</b></p> <p>Packaging intended to be retained as part of the toy or that provides play value meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicating soluble or total heavy elements in the packaging substrates do not exceed the limits outlined in the Heavy Elements Requirements Table (<i>above</i>)</p> <p style="text-align: right;">--- Y/N</p> <p>Test report date: ---</p> <p><b>OR</b></p> <p>Heavy element screening (<i>ASTM F963 § 8.3.1</i>) indicates that the total heavy element content in the packaging substrates does not exceed the limits outlined in the Heavy Elements Requirements Table (<i>above</i>)</p> <p style="text-align: right;">--- Y/N</p> <p><b>OR</b></p> <p>Soluble element testing indicates the heavy element content in the packaging substrates do not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p> <p><b>Maximum Soluble Migrated Elements in Modeling Clay</b></p> <p>Modeling clay(s) included with toys meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicates soluble or total heavy elements in the modeling clay substrate(s) do not exceed the following limits:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Modeling Clay - Heavy Elements Requirements</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>0.0090% (90-ppm, 90-mg/kg)</td> </tr> <tr> <td>Mercury</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Antimony</td> <td>0.0060% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Arsenic</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Barium</td> <td>0.0250% (250-ppm, 250-mg/kg)</td> </tr> <tr> <td>Cadmium</td> <td>0.0050% (50-ppm, 50-mg/kg)</td> </tr> <tr> <td>Chromium</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Selenium</td> <td>0.0500% (500-ppm, 500-mg/kg)</td> </tr> </tbody> </table> <p style="text-align: right;">--- Y/N</p> <p>Test report date: ---</p> <p><b>OR</b></p>	Modeling Clay - Heavy Elements Requirements		Lead	0.0090% (90-ppm, 90-mg/kg)	Mercury	0.0025% (25-ppm, 25-mg/kg)	Antimony	0.0060% (60-ppm, 60-mg/kg)	Arsenic	0.0025% (25-ppm, 25-mg/kg)	Barium	0.0250% (250-ppm, 250-mg/kg)	Cadmium	0.0050% (50-ppm, 50-mg/kg)	Chromium	0.0025% (25-ppm, 25-mg/kg)	Selenium	0.0500% (500-ppm, 500-mg/kg)	---	<p><i>N/A - No packaging provided</i></p> <p><i>N/A - No applicable materials</i></p>
Modeling Clay - Heavy Elements Requirements																					
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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
15 USC 2057	<p>Heavy element screening (ASTM F963 § 8.3.1) indicates that the total heavy element content in the modeling clay substrate(s) does not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p> <p><b>OR</b></p> <p>Soluble element testing indicates that the heavy element content in the modeling clay substrate(s) does not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p>		
	<p><b><u>Phthalates</u></b>  <i>Accessibility is tested before and after reasonable use and abuse testing for all ages up to 12 years in accordance with 16 CFR 1199</i>  <i>Only accessible components of the following material types are required to be tested:</i></p> <ul style="list-style-type: none"> <li>• All PVC (Polyvinyl chloride) &amp; related polymers, {e.g. PVDC (polyvinylidene chloride) &amp; PVA (polyvinyl acetate)}</li> <li>• Foam rubber or foam plastic, such as polyurethane (PU)</li> <li>• Surface coatings, non-slip coatings, finishes, decals, &amp; printed designs</li> <li>• Adhesives and sealants</li> <li>• Electrical insulation</li> </ul> <p><i>These materials do not require testing:</i></p> <ul style="list-style-type: none"> <li>• Polyolefins (Polypropylene, polyethylene)</li> <li>• Polystyrene (GPPS, MIPS, HIPS, SHIPS)</li> <li>• Acrylonitrile Butadiene Styrene (ABS)</li> </ul> <p><b><u>Phthalates - Toy Components and Reuseable Packaging</u></b>  <i>(including any non-mouthable reusable packaging components)</i></p> <p>Applicable toy and reusable packaging components meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicates that applicable components contain no more than 0.1% (1,000-ppm, 1,000-mg/kg) of each of the following phthalates.</p> <p>DINP (Diisononyl Phthalate, 28553-12-0 and 68515-48-0)  DIBP (Diisobutyl phthalate, 84-69-5)  DCHP (Dicyclohexyl phthalate, 84-61-7)  DEHP (Di(2-ethylhexyl) phthalate, 117-18-7)  BBP (Benzyl Butyl Phthalate, 85-68-7)  DBP (Dibutyl Phthalate, 84-74-2)  DPENP/DnPP (Di-n-pentyl phthalate, 131-18-0)  DHEXP/DnHP (Di-n-hexyl phthalate, 131-18-0)</p> <p><i>Test reports must be dated within 1 year of the date received in the approved lab</i></p>	<b>Pass</b>	<a href="#">See attached report for details</a>

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8. ASTM F963 TEST METHODS (continued)													
SECTION	REQUIREMENTS	RATING	COMMENTS										
8.4.1	<p>Test report must be submitted at the same time as the request for production testing</p> <p>Test report must indicate that test method CPSC-CH-C1001-09 or GB/T 22048-2008 was used</p> <p>Test report must show a passing test result</p> <p>Test report date: --- / --- / --- Y/N</p> <p><b>OR</b></p> <p>Phthalate testing indicates that applicable toy and reusable packaging components contain no more than 0.1% (1,000-ppm, 1,000-mg/kg) of each of the above phthalates</p> <p>Yes / --- Y/N</p> <p>Labs must test using test method CPSC-CH-C1001-09 or GB/T 22048-2008</p>												
	<p><b>Cleanliness of Materials</b></p> <p>Applies to: Cosmetics, Liquids, Pastes, Putties, Gels, Powders &amp; Avian Feathers</p> <p>Acceptable Test Methods: USP 35 &lt;61&gt; &amp; &lt;62&gt; Microbial Limits &amp; Pathogen Identification Tests (or most current edition of USP) <b>OR</b> CTFA Microbiology Guidelines Test Methods M-1 &amp; M-2</p>												
8. ASTM F963 TEST METHODS (continued)													
SECTION	REQUIREMENTS	RATING	COMMENTS										
	<p>A test report is provided indicating the product was tested using an acceptable test method and that the product meets the cleanliness requirements indicated in the table below:</p> <p>Test report date (dated within 2 years):</p> <table border="1"> <thead> <tr> <th>Product Type</th> <th>Cleanliness Limits (cfu/mL or cfu/gm)</th> </tr> </thead> <tbody> <tr> <td>Infant Products</td> <td>500</td> </tr> <tr> <td>Face paints or cosmetics intended for a child or doll or similar products which have a high likelihood of being used in the area of the eye (excluding lip balms &amp; glosses, lipsticks &amp; similar items)</td> <td>500</td> </tr> <tr> <td>Avian Feather Products</td> <td>5000</td> </tr> <tr> <td>All Other Products</td> <td>5000</td> </tr> </tbody> </table>	Product Type	Cleanliness Limits (cfu/mL or cfu/gm)	Infant Products	500	Face paints or cosmetics intended for a child or doll or similar products which have a high likelihood of being used in the area of the eye (excluding lip balms & glosses, lipsticks & similar items)	500	Avian Feather Products	5000	All Other Products	5000	---	N/A - No applicable materials
Product Type	Cleanliness Limits (cfu/mL or cfu/gm)												
Infant Products	500												
Face paints or cosmetics intended for a child or doll or similar products which have a high likelihood of being used in the area of the eye (excluding lip balms & glosses, lipsticks & similar items)	500												
Avian Feather Products	5000												
All Other Products	5000												
		---	N/A - Not a stuffed toy										
		---	N/A										
		---	N/A										
		---	N/A - Not a stuffed toy										

8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.4.2	<p><b>Preservative Effectiveness</b></p> <p>Acceptable Test Methods: USP 35 &lt;51&gt; (or the most current USP) <b>OR</b> CTFA Microbiology Guidelines, methods M-3 or M-6 as appropriate.</p> <p><u>Applies to:</u> products which are judged to be susceptible to microbial degradation or have the potential to support growth</p> <p><u>Does not apply to:</u> Avian feather products, Lip balms, Pomades, Ointments, Wax-based products, Siloxane and siloxane derivative based products, Powders (<i>anhydrous with a water activity below 0.5, and non-hygroscopic</i>), Products with an alcohol content equal to or &gt;20 % (vol/vol), and Products with a pH of &lt; 3 or &gt; 10.</p> <p>For products that are not specifically excluded you must contact the supplier to provide alcohol content (if any) water activity measurement and pH to determine if test report is required.</p> <p>The supplier must submit a test report for products which are judged to be susceptible to microbial degradation or to have the potential to support growth. The report must indicate that the product was tested for microbial control and preservative effectiveness using an acceptable method.</p> <p>The following organisms (at a minimum) are to be used to challenge the product: Staphylococcus aureus, American Type Culture Collection 17 (ATCC) 6538; Escherichia coli; ATCC 8739; Pseudomonas aeruginosa, ATCC 9027; Candida albicans, ATCC 10231; and Aspergillus brasiliensis, ATCC 16404.</p> <p>Evaluation criteria: (a) bacteria must exhibit a log reduction of &gt;2 (<i>that is, population must be less than 1 % of initial inoculum</i>) at 14 days, and show no increase from the 14-day result at 28 days;                      (b) fungi, yeast, and molds must exhibit no increase from the initial inoculum at either 14 or 28 days.</p>	---	<i>N/A - No applicable materials</i>

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<b>8. ASTM F963 TEST METHODS (continued)</b>			
<b>SECTION</b>	<b>REQUIREMENTS</b>	<b>RATING</b>	<b>COMMENTS</b>
8.5.1	Washable Toys	---	<i>N/A - No labeled claims</i>
8.6	Abuse Testing	Pass	
8.7	Impact Tests		
8.7.1	Drop Test	Pass	
8.7.2	Tip over Test for Large, Bulky Toys	---	<i>N/A - No applicable materials</i>
8.7.3	Tumble Test for Wheeled Toys	---	<i>N/A - No applicable materials</i>
8.7.4	Impact Test for Toys that Cover the Face	---	<i>N/A - No applicable materials</i>
8.8	Torque Test for Removal of Components	Pass	
8.9	Tension Test for Removal of Components	Pass	
8.9.1	Tension Test for Seams in Stuffed & Beanbag Type Toys	---	<i>N/A - Not a stuffed/beanbag type toy</i>
8.10	Compression Test	Pass	
8.11.1 - 8.11.3	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	---	<i>N/A - No applicable materials</i>
8.12	Flexure Test	---	<i>N/A - No applicable materials</i>
8.13	Test for Mouth-Actuated Toys	---	<i>N/A - Not a mouth actuated toy</i>
8.13.2	Mouth Actuated Discharge for Projectile Toys	---	<i>N/A - Not a battery operated toy</i>
8.14	Projectiles	---	<i>N/A - Not a projectile toy</i>
8.15	Ride-On Toys - Sideways Stability	---	<i>N/A - Not a ride-on toy or seat</i>
	Ride-On Toys - Fore & Aft Stability	---	<i>N/A - Not a ride-on toy or seat</i>
8.16	Pom-poms Torque / Tension Test	---	<i>N/A - No pom-poms</i>
8.17	Stalled Motor Test for Battery-Operated Toys	---	<i>N/A - Not a battery operated toy</i>
8.20	Test for Toys Which Produce Noise	---	<i>N/A - Not a sound producing toy</i>
<b>8. ASTM F963 TEST METHODS (continued)</b>			
<b>SECTION</b>	<b>REQUIREMENTS</b>	<b>Rating</b>	<b>COMMENTS</b>
8.21	Dynamic Strength Test for Wheeled Ride-on Toys	---	<i>N/A - Not a wheeled ride-on toy</i>
8.22	Packaging Film Thickness	---	<i>N/A - Shrink wrap</i>
8.23	Test for Loops & Cords	---	<i>N/A - No cords, straps or elastics</i>
8.24	Yoyo Elastic Tether Toy Test Methods	---	<i>N/A - Not a yo-yo elastic tether toy</i>
8.25	Magnet Test Methods	---	<i>N/A - No magnets</i>
8.26	Test Methods for Locking Mechanisms or Other Means		
8.26.1	Locking Mechanism or Other Means	---	<i>N/A - No applicable materials</i>
8.26.2	Locking Test Method	---	<i>N/A - No applicable materials</i>
8.29	Evaluation of Stuffing Materials	---	<i>N/A - No applicable materials</i>
8.30	Expanding Materials	---	<i>N/A - No applicable materials</i>

LABELING / SUPPORTING DOCUMENTATION		RATING	COMMENTS										
<p><b>ILLINOIS - LEAD POISONING PREVENTION ACT WARNING LABEL</b>  <i>Applies to toys with an accessible component containing any external coating, including but not limited to paint, ink, lacquer, or screen printing, designed for or intended for use by children under the age of 12 at play</i></p> <p><i>Only accessible components will be tested to meet these requirements. An accessible component is a part that is easily touched, either before or after use and abuse testing</i></p> <p>Toys which have lead content in the surface coating greater than 0.004% (40 ppm, 40 mg/kg) , include the following warning labeling:  <b>WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS</b></p>		---	N/A - Labeling not required										
<p><b>STUFFED / PLUSH TOY LABELING</b>                      Includes stuffing label with the following information:                      Registration number (including country code) _____</p>		---	N/A - Not a stuffed toy										
<p>The statement : "All New Material"                      Identification of filling material</p> <table border="1"> <thead> <tr> <th>Labeled Filler</th> <th>Observed Filler</th> </tr> </thead> <tbody> <tr> <td>---</td> <td>---</td> </tr> <tr> <td>---</td> <td>---</td> </tr> <tr> <td>---</td> <td>---</td> </tr> <tr> <td>---</td> <td>---</td> </tr> </tbody> </table>		Labeled Filler	Observed Filler	---	---	---	---	---	---	---	---	---	N/A - Not a stuffed toy
Labeled Filler	Observed Filler												
---	---												
---	---												
---	---												
---	---												
<p><b>Note:</b> <i>The form, design and size of the label is left to the discretion of the manufacturer, provided that the information required on the label is clearly legible</i></p> <p>Stuffing labeling that is required by PA., OH, and MA must be visible at the point of sale. If the toy is packaged the label must be visible through the packaging box windows, or the label must be duplicated on the package.</p>		---	N/A - Not a stuffed toy										
<p><b>STUFFED ARTICLE PROTOCOL</b>  <i>The following requirements are not applied to costume components or products intended exclusively for the Puerto Rico market.</i></p> <p>One of the following conditions is met:</p> <p>The URN number on the law tag is registered on the Global Registration Services (GRS) website: <a href="http://prod.globalrsinc.com/Testlab/Index">http://prod.globalrsinc.com/Testlab/Index</a></p> <p>URN is confirmed on GRS website _____ Y/N</p>		---	N/A - Not a stuffed toy										
<p><b>OR</b></p>													

<b>LABELING / SUPPORTING DOCUMENTATION (continued)</b>		
<p>The supplier must submit the following:</p> <ul style="list-style-type: none"> <li>- All applicable state applications</li> <li>- Proofs of Payment</li> <li>- Proof of GRS registration</li> </ul> <p style="text-align: right;">All applicable documents are provided      <u>---</u>      Y/N</p>	---	N/A - Not a stuffed toy
<p><b>STUFFED TOYS - Styrofoam Beads</b> Stuffed toys must not contain electrostatically charged Styrofoam beads</p>	---	N/A - Not a stuffed toy
<p><b>STUFFED TOYS FILLER MATERIAL CLEANLINESS - Pennsylvania Code</b> <u>Fiber Fill Materials (PA Code - 47.317)</u></p> <p>Fiber fill material for stuffed toys whether natural or synthetic, does not contain any of the following, when tested in accordance with Pennsylvania Code - 47.317 Tolerances for the Commonwealth of Pennsylvania Regulations for Stuffed Toys:</p>		
<p>(1) Material of sufficient size to visibly reveal a pattern, weave, or other mechanical unification of threads to indicate prior use or a previous manufacturing process.</p>	---	N/A - No applicable materials
<p>(2) Dirt or other foreign matter in excess of 1% by weight</p>	---	N/A
<p>(3) More than 1% oil or grease</p>	---	N/A
<p>(4) More than .002% lead (as Pb) — 20 ppm</p>	---	N/A
<p>(5) More than .0002% arsenic (as As) — 2 ppm</p>	---	N/A
<p>(6) More than 5% ammonia</p>	---	N/A
<p>(7) More than 1% urea</p>	---	N/A
<p>(8) Stones or other hard materials with jagged or sharp edges  </p>	---	N/A
<p>(9) Material bearing electrostatic charge with adherence characteristics which when exposed could lodge in the windpipe, ears or nostrils</p>	---	N/A
<p><b>FCC - RADIO CONTROLLED TOYS</b> The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p>	---	N/A - Not a radio-controlled toy
<p><b><u>Operating Frequency 26.96 - 27.78 MHz</u></b> <u>Transmitter Labeling</u> Transmitter includes the following permanently applied labeling regarding compliance with FCC Part 15 regulations (no required labeling for receivers operating at less than 30 MHz)</p>	---	N/A - Not a radio-controlled toy
<p><i>This device complies with part 15 of the FCC Rules (47CFR Part 15). Operation is subject to the following two conditions:</i> <i>(1) This device may not cause harmful interference, and</i> <i>(2) this device must accept any interference received, including interference that may cause undesired operation</i></p>		



LABELING / SUPPORTING DOCUMENTATION (continued)		
<p><b><u>Operating Frequency 49.82 - 49.90 MHz</u></b></p> <p>Receivers and Transmitters which operate at a frequency of 49.82 - 49.90 MHz include the following permanently applied labeling regarding compliance with FCC Part 15 regulations</p> <p style="padding-left: 40px;"><i>This device complies with part 15 of the FCC Rules (47CFR Part 15). Operation is subject to the following two conditions:</i>  <i>(1) This device may not cause harmful interference, and</i>  <i>(2) this device must accept any interference received, including interference that may cause undesired operation</i></p> <p><b>FCC - ELECTRONIC TOYS</b>  <b><u>Class B - Digital Device - Unintentional Radiators</u></b>                      Class B digital devices (over 9 kHz) meet one of the following:                      Product includes a marking stating:  <i>This device complies with Part 15 of the FCC Rules. Operation is subject to the following 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</i></p> <p style="text-align: right;">--- Y/N</p> <p><b>AND</b>                      The user manual or instruction sheet for Class B digital devices or peripherals shall include the following or similar statement placed in a prominent location:</p> <p><b>NOTE:</b> <i>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 (47CFR Part 15). 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. 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:</i></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 output 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>	<p>---</p>	<p><i>N/A - Not a radio-controlled toy</i></p> <hr/> <p><i>N/A - Not a radio-controlled toy</i></p> <hr/> <p><i>N/A - Not an electronic toy</i></p> <hr/> <p><i>N/A - Not an electronic toy</i></p> <hr/> <p><i>N/A - Not an electronic toy</i></p>
<p><b>OR</b></p> <p>Test report is provided which indicates that the product qualifies for exemption</p> <p style="text-align: right;">Test report date: --- Y/N</p> <p><b>RECHARGEABLE BATTERY OPERATED TOYS</b>                      Test report is provided indicating the product meets the applicable requirements of ASTM F963 2016 §4.25.11-Toys that Contain Secondary Cells or Secondary Batteries</p> <p style="text-align: right;">Test report date: ---</p>	<p>---</p>	<p><i>N/A - Not an electronic toy</i></p> <hr/> <p><i>N/A - Not an electronic toy</i></p> <hr/> <p><i>N/A - Not an electronic toy</i></p> <hr/> <p><i>N/A - Not an electronic toy</i></p>

<b>LABELING / SUPPORTING DOCUMENTATION (continued)</b>		
<p><b>ELECTRIC TOYS</b></p> <p>Test report is provided indicating the product meets the requirements specified by 16 CFR 1505 for Electrically Operated Toys and Other Articles Intended for use by Children</p> <p style="text-align: right;">Test report date: <u>---</u></p>	---	N/A - Not an electronic toy
<p><b>BATTERY OPERATED TOYS</b></p> <p>Battery Operated toys meet the requirements of the Battery Operated Product supplemental worksheet 5-19IC.</p>	---	N/A - No applicable materials
<p><b>TOY GUNS</b></p> <p>Toy Guns meet the applicable requirements of Toy Gun Markings worksheet supplement 7-9IC (attached)</p> <p>Toy guns do not include laser pointers</p>	---	N/A - Not a toy gun
<p><b>COSTUME / DRESS UP PRODUCTS</b></p> <p>Products intended to be worn on the body meet the applicable requirements of the Children's Costume and Mask Safety worksheet 18-22 (attached)</p> <p>Dress up / Costume wigs, toupees and hair pieces meet the applicable requirements of the Wig, toupee, hair piece worksheet 2-16 (attached)</p>	---	N/A - Not a costume or dress-up product
<p><b>ALL PRODUCTS PROTOCOL</b></p> <p>Meets the requirements of worksheet supplement 1-5IC - All Products - US Markets (attached)</p>	---	N/A - Not requested by the client
<p><b>CHILD CARE ARTICLES</b></p> <p>Meet the applicable child care article requirements of worksheet supplement 26-35IC - Restricted Substances and Hazardous Components Children's Products - Child Care Articles (attached)</p>	---	N/A - Not a child care article
<b>CONCLUSIONS</b>		
<b>OVERALL RATING</b>		PASS
COMMENTS:		
<p>Latest Change                      Revised phthalate list per CPSC notice</p> <p>5/10/18</p> <p>Reference Material:              ASTM F963 - 16 Standard Consumer Safety Specification on Toy Safety, Code of Federal Regulations Title 16 Commercial Practices, Consumer Product Safety Improvement Act (CPSIA)</p>		
<p><i>This protocol represents testing methods and procedures for testing and evaluating the above specified item. Depending upon the nature of the product, certain tests specified herein may not be applied and / or additional testing procedures may be utilized. This protocol is not intended to be used as a manufacturing or design specification and is subject to revision as further experience and investigation may show necessary.</i></p>		

## CPSIA / CFR REQUIREMENTS

### REGULATORY SUPPLEMENT

**SAMPLE** 35 & 200 Piece Puzzle

I. IDENTIFICATION and INSPECTION	
	RATING      COMMENTS
<p><i>Note: This worksheet is a regulatory supplement and must accompany the applicable product specific worksheet</i></p> <p><b>TRACKING LABEL (CPSIA Section 103)</b></p> <p><i>Note: Tracking labeling consists of Manufacturer / Private Labeler Name, location of production, date of production, cohort information (including the batch, run number, or other identifying characteristic); OR this information may be in a code</i></p> <p>On Package: <u>---</u></p> <p style="margin-left: 40px;"><u>---</u></p> <p>On Product: <u>---</u></p> <p style="margin-left: 40px;"><u>---</u></p>	<div style="border-bottom: 1px solid black; height: 100px;"></div> <p style="text-align: center; color: blue;">---</p> <p style="text-align: center; color: blue;">N/A - Not requested by the client</p> <hr/> <p style="text-align: center; color: blue;">---</p> <p style="text-align: center; color: blue;">N/A - Not requested by the client</p>
<p><b>LEAD CONTENT - SURFACE COATINGS (16CFR 1303)</b></p> <p><i>The following is exempt: Mirrors which are part of furniture articles, artists' paints and related materials, metal furniture articles (but not metal children's furniture) bearing factory-applied (lead) coatings</i></p> <p>Lead content of the surface coating(s) scraped from the actual product does not exceed 0.009% (90 ppm, 90-mg/kg)</p>	<div style="border-bottom: 1px solid black; height: 100px;"></div> <p style="text-align: center; color: blue;">Pass</p> <p style="text-align: center; color: blue;">See attached report for details</p>
<p><b>LEAD CONTENT - ACCESSIBLE SUBSTRATES</b></p> <p><u>Total Lead in Substrates / Base Materials</u></p> <p><i>Accessibility is tested before and after reasonable use and abuse testing for all ages up to 12 years</i></p> <p><i>Note: XRF testing is not performed on mouthable components of toys and child care articles. For mouthable components of toys and child care articles only perform wet chemistry testing.</i></p> <p>Product meets one of the following:</p> <p>X-Ray Fluorescence (XRF) prescreening indicates a lead level 0.007% (70-ppm, 70-mg/kg) or less for any accessible substrate / base material</p> <p style="text-align: right; margin-right: 50px;"><u>---</u>      Y/N</p>	<div style="border-bottom: 1px solid black; height: 100px;"></div> <p style="text-align: center; color: blue;">---</p> <p style="text-align: center; color: blue;">N/A - No applicable materials</p>

	RATING	COMMENTS
<p><b>OR</b></p> <p>Lead content of all accessible substrates / base materials, sampled from the finished product do not exceed 0.01% (100-ppm' 100 mg/kg)</p> <p><i>Exception: Aluminum alloy components of ride on toys intended for children 3 years and older that are not likely to be placed in the mouth or ingested or extensively contacted by a child because of their function and location must not exceed 0.03% (300-ppm, 300-mg/kg)</i></p> <p style="text-align: right;">--- Y/N</p>		

**LEAD CONTENT - EXEMPT ELECTRONIC COMPONENTS (16CFR 1500.88)**

**Note:** The electronic component parts in children's electronic devices, (listed below), are exempt from the lead content substrate requirements; note, this only exempts the listed component part and does not exempt the entire product.

- \* Lead blended into the glass of cathode ray tubes, electronic components, and fluorescent tubes.
- \* Lead used in lead-bronze bearing shells and bushings.
- \* Lead used in compliant pin connector systems.
- \* Lead used in optical and filter glass.
- \* Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring, as well as in print pastes.
- \* Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.
- \* Components of electronic devices that are removable or replaceable, such as battery packs and light bulbs that are inaccessible when the product is assembled in functional form or are otherwise granted an exemption.

**LEAD CONTENT - ELECTRONIC COMPONENTS CONDITIONALLY EXEMPT (16CFR 1500.88)**

Product meets one of the following:

Lead used in electronic components of toys, in the manner described below does not exceed the following limits:

Lead Use	Limit
Lead used as an alloying element in steel	< 0.35% by weight (3,500-ppm, 3,500 mg/kg)
Lead used in the manufacture of aluminum	< 0.4% by weight (4,000-ppm, 4,000 mg/kg)
Lead used in copper-based alloys	< 4% by weight (40,000-ppm, 40,000 mg/kg)

--- Y/N

---	N/A - No applicable materials
---	N/A - No applicable materials

**LEAD CONTENT - ELECTRONIC COMPONENTS (16CFR 1500.88)**

All other electronic components (other than those described in the exempt or conditionally exempt lists above) meet one of the following requirements:

X-Ray Fluorescence (XRF) prescreening indicates a lead level 0.007% (70-ppm, 70-mg/kg) or less for all applicable electronic components

--- Y/N

**OR**

Lead content of applicable electronic components sampled from the finished product does not exceed 0.01% (100-ppm, 100-mg/kg)

--- Y/N

**FLAMMABILITY OF SOLIDS**

*This requirement is applied to all solids including granules, powders, pastes, and rigid and pliable solids*

Children's product's (*other than toys*) which have an ignition source, or are intended to be used near an ignition source (*e.g. lighter, matches, lights etc.*) meet one of the following:

Solids flammability testing indicates that solids (*as described above*) do not exceed the maximum allowable limit of no greater than 0.1 inches per second when tested in accordance with 16 CFR 1500.44

**MECHANICAL HAZARDS**

Small Parts

Product meets requirements of 16CFR 1501 Method for Identifying Toys & Other Articles Intended for Use by Children Under 3 Years of Age Which Represent Choking, Aspiration, or Ingestion Hazards Because of Small Parts

Sharp Points

**Note:** *Evaluation for sharp points is done before and after abuse tests for ages under 8, and as received only for ages 8 - 12*

Product meets the requirements of 16 CFR 1500.48 Technical Requirements for Determining a Sharp Point in Toys and Other Articles Intended for use by Children Under 8 Years of Age

RATING	COMMENTS
---	N/A - No applicable materials
Pass	
Pass	

	RATING	COMMENTS
<p><u>Sharp Edges</u>  <i>Note: Evaluation for sharp edges is done before and after abuse tests for ages under 8, and as received only for ages 8 - 12)</i>                      Product meets the requirements of 16 CFR 1500.49 Technical Requirements for Determining a Sharp Edges in Toys and Other Articles Intended for use by Children Under 8 Years of Age</p>	---	N/A - No applicable materials

**II. CONCLUSIONS**

<p><b>OVERALL RATING</b>                      COMMENTS:</p>	<p><b>PASS</b></p>
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Latest Change: new worksheet  
1/5/18

Reference Material:

- 16CFR 1500.231 Guidance for Hazardous Liquid Chemicals in Children's Products
- 16CFR 1500 & 1500.3 Hazardous Substance and Articles
- 16CFR 1501 Small Parts Hazards
- 16CFR 1199.1 Phthalate-containing inaccessible component parts  
Consumer Product Safety Improvement Act of 2008

***This technical worksheet represents testing methods and procedures generally used for testing and evaluating the above specified item. Depending upon the nature of the product, certain tests specified herein may not be applied and / or additional testing procedures may be utilized. This technical worksheet is not intended to be used as a manufacturing or design specification and is subject to revision as further experience and investigation may show necessary.***

# Analytical Chemistry Report

## ARHL0712642

### Test Summary

Specification / Test Type	Result
1) Phthalate Content of Polymeric Materials	Pass
2) Heavy Metal Content of Surface Coatings	Pass

### Component List

Component	Description
1	PZ-236 puzzle coating - CMYK
2	PZ-202 puzzle coating - CMYK

Note: Multiple component numbers on a single test line represent a composite test or combined components

### Test Data

#### 1) Phthalate Content of Polymeric Materials

Test Method: Phthalate content was determined with reference to US Consumer Product Safety Commission method CPSC-CH-C1001-09.4

Component	DBP	BBP	DEHP	DnOP	DINP	DIDP	DHEXP	DCHP	DIBP	DPENP	Rating
1,2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Pass

Note: Regulatory Limit = 0.1% by weight  
Results are expressed as weight percent (wt.%)

#### 2) Heavy Metal Content of Surface Coatings

Test Method: Total lead content was determined according to CPSC-CH-E1003-09.1. Additional elements were analyzed with reference to EPA methods 6010D or 6020B

Component	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Rating
Limit	25	1000	75	60	60	40	60	500	-
1,2	< 20	250	< 15	16	< 5	< 15	< 30	< 100	Pass

Note: Elements that are below the LOD are reported as "<LOD"  
A pass rating demonstrates compliance to ASTM F963-17

† - Result above the applicable limit. Additional testing was required to determine rating  
 < = less than  
 ND = Not Detected, LOD = Limit of Detection  
 Results expressed in mg/kg unless otherwise noted