



REPORT NUMBER: WOAHO0002600C

REPORT DATE: 02/06/2009

TEST REPORT

CUSTOMER: Fractiles, Inc.
2525 Arapahoe Ave Ste E4-110
Boulder, CO 80302
USA

Attn: Beverly Johnson

Product Name: Fractiles Magnetic Tiling Toy Sets – Large
Age labeling: 6 and Over
Age grading: 6 and Over
Supplier: Fractiles, Inc.
Sample received date: 01/27/2009
Date of testing ended: 02/06/2009

TEST CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

CONCLUSION:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Fractiles Magnetic Tiling Toy Sets – Large	1. ASTM F963-07 Physical & Mechanical (Including Magnet Flux)	1. Does Comply
	2. ASTM F963-07 Flammability	2. Does Comply
	3. Total Lead in Substrates (CPSIA)	3. Does Comply
	4. Phthalates – 6 (CPSIA)	4. Did Not Exceed

PAGE 1/TOTAL TO BE CONTINUED

TOTAL 12 PAGES

PREPARED BY:

SIGNED FOR THE COMPANY BY:

Kimberly Caputa
Account Manager

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Technical Support Expert

The test results stated in this report relate only to the item(s) tested. This test report may not be reproduced except in full, without written approval of Intertek.

Tests identified with an asterisk (*) have been subcontracted.

Intertek

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Telephone: 847-439-5667 Fax: 847-439-6156



1. Mechanical Hazards: Safety of Toys (ASTM F963-07^{e1})

Sample ID: Fractiles Magnetic Tiling
 Toy Sets – Large

Labeled Age Group: For Ages 6 to Adult Appropriate Warning Labeling: N/A
 Recommended Age Grading: For Ages 6 to Adult Machine Washable Plush Toy: N/A
 Tested Age Grade: For Ages 6 to Adult Number of Samples: 1

Procedure: The submitted samples were tested to the applicable sections of ASTM F963-07^{e1} requirements.

P = Pass		F = Fail		N/A = Not Applicable		
Clause	Description	P	F	N/A		
4	SAFETY REQUIREMENTS					
4.1	Material quality (visual check on cleanliness)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.3.7	Stuffing materials (visual check on contaminations)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.5	Sound producing toys					
4.5.1.1	Continuous sound produced by close to the ear toys – L _{Aeq}	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.5.1.2	Continuous sound produced by all other toys – L _{Aeq}	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Maximum sound produced by pull along toys – L _{Amax}	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.5.1.3	Impulsive sound produced by close to the ear toys – L _{Cpeak}	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.5.1.4	Impulsive sound produced by all other toys - L _{Cpeak}	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.5.1.5	Impulsive sound produced by percussion caps and explosive – L _{Cpeak}	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.6	Small objects					
4.6.1	Toys intended for children under 36 months of age	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.6.2	Mouth actuated toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.6.3	Toys and games for 36 months to 72 months—Small part warning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.7	Accessible edges (under 8 years of age)					
4.7.1	Potential sharp metal and glass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7.2	Functional sharp edge 48 to 96 months--warning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
4.7.3	Metal toys	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7.4	Molded toys	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



P = Pass		F = Fail		N/A = Not Applicable	
4.7.5	Exposed bolts or threaded rods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.8	Projections (under 8 years of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.9	Accessible points (under 8 years of age)				
4.9.1	Potential sharp point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.9.2	Functional sharp point 48 to 96 months--warning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.9.3	Wood	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.10	Wires or rods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.11	Nails and fasteners	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
*4.12	Packaging film	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.13	Folding mechanisms and hinges				
4.13.1	Folding mechanisms	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.13.2	Hinge line clearance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.14	Cords and elastics				
4.14.1	Cords, straps and elastics (less than 18 months of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.14.1.1	Break-away feature	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.14.2	Self retracting pull cords (less than 18 months of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.14.3	Pull toys (less than 36 months of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.14.4	Strings and lines for flying devices	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.14.4	Cords on toy bags intended for children up to 18 months	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.15	Stability and overload requirement				
4.15.2	Sideway stability requirements (60 months of age or less)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.15.2.1	Feet available for stabilization: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.15.2.2	Feet unavailable for stabilization: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.15.3	Fore and aft stability (60 months of age or less)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.15.4	Stationary floor toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.15.5	Overload requirements for ride on toys and seat	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.16	Confined spaces				
4.16.1	Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



P = Pass		F = Fail		N/A = Not Applicable	
4.16.2	Closures	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.16.3	Toys that enclose the head	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.17	Wheels, tires, and axles (aged 96 months or less)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18	Holes, clearance, and accessibility of mechanisms				
4.18.1	Accessible clearances for moveable segments (under 96 months of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.2	Circular holes in rigid materials (aged 60 months or less)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.3	Chains and belts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.3.1	Supporting chains (36 months or less in age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.3.2	Chains or belts for ride on toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.4	Inaccessibility of mechanisms (aged 60 months or less)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.5	Winding keys (under 36 months of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.18.6	Coil springs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.19	Simulated protective devices				
4.19.1	Eye protection	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.19.2	Simulate safety protective devices--label	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.20	Pacifiers (under 36 months of age)				
4.20.2	Small objects	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.20.2	Nipple length: _____ 16 CFR 1511: APPLICABLE//NOT APPLICABLE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
*4.21	Projectile toys				
4.21.1.1	Sharp point/edge, small part	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.21.1.2	Tip radius	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.21.1.3	Kinetic energy and resilient impact surface	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.21.1.4	Protective tip	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.21.2	Discharge mechanisms—improvised projectiles	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.21.3	Arrow	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.22	Teethers and teething toys				
4.22.1	Rattle fixture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.22.2	Supplemental fixture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



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4.23	Rattles				
	16 CFR 1510 requirement and rattle fixture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.23.1	Supplemental fixture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.24	Squeeze toys (under age of 18 months)				
4.24.1	Rattle fixture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.24.2	Supplemental fixture	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25	Battery operated toys				
4.25.1	Marking of Battery compartment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.1.1	Toys containing non-replaceable batteries shall be labeled in accordance with 5.15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.2	Maximum DC potential	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.3	Unable to charge non-rechargeable batteries	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.4	Accessibility of batteries (under 3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.5	Accessibility of batteries - small parts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.6	Isolated circuits	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.7	Surface temperature of batteries (less than 71°C)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.8	No short circuits	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.9	Instructions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.25.10	Battery Operated Ride On Toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.26	Toys intended to be attached to a crib or playpen				
4.26.1	Protrusions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.26.2	Crib mobile	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.26.3	Crib gyms	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
*4.27	Toy chests				
4.27.1	Lid support	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.27.1.1	0.5 inch drop	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.27.1.2	after 7000 open close cycles	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.27.1.3	Not require adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4.27.1.4	Lid support mechanism clearance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



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4.27.2	Hinge line clearance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.27.3	Closures	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.27.4	Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.27.5	Safety labeling and instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.28	Stuffed and beanbag type toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.29	Stroller and carriage toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.30	Art materials	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*4.31	Toy gun marking	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.32	Balloons—safety labeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.33	Certain toys with spherical ends					
4.33.1	Spherical ends attached to a shaft (up to the age of 18 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.33.3	Preschool play figures (under 3 years of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.34	Marbles (3 years of age or older)					
4.34.1	Toys and games contain marble (at least 3 but less than 8 years of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.35	Balls					
4.35.1	Balls/loose balls in toys for children under 36 months of age	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.35.2	Toys contain loose small ball (at least 3 but less than 8 years of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.36	Pompoms (under 3 years of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*4.37	Hemispherical shaped objects (under 3 years of age)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Have at least 2 opening: YES/NO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Interrupted at center: YES/NO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Have 3 openings: YES/NO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Scalloped edge: YES/NO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	One big opening: YES/NO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*4.38	Yo Yo elastic tether toys (3 years and older)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.39	Magnets					
4.39.1	Safety labeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.39.2	After abuse testing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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5	<u>LABELING REQUIREMENTS</u>				
5.4	Aquatic toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.5	Crib and playpen toys				
5.5.1	Age grading	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.5.2	Safety labeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.6	Mobile				
5.6.1	Age grading	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.6.2	Safety labeling	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.7	Stroller and carriage toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.8	Toys intended to be assembled by an adult	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.9	Simulated protective devices	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.10	Toys with functional sharp edges or points	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.11	Small objects, small balls, marbles, and balloons	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.12	Toy caps	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.13	Art materials	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.14	Electric toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.15	Battery operated toys				
5.15.1	Battery powered ride on toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5.16	Promotional materials	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.17	Magnets	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	INSTRUCTIONAL LITERATURE				
6.1	Definition and description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.2	Toy chests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6.3	Crib and playpen toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6.4	Mobiles	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6.5	Toys intended to be assembled by an adult	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6.6	Battery operated toys				
6.6.3	Battery powered ride on toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



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P = Pass		F = Fail		N/A = Not Applicable		
6.7	Toys in contact with food	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	PRODUCER'S MARKING					
7.1	Name YES Address YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.2	Toy chests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.3	Battery powered ride on toys	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Conclusion: When tested as specified, the submitted sample **does comply** with the *ASTM F963-07^{ε1}* requirements for Mechanical Hazards.

Intertek

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2. **Flammability:** Federal Hazardous Substances Act and ASTM F963-07^{E1}

Procedure: The method of testing was that described in **16 CFR 1500.44** of the *Federal Hazardous Substances Act and ASTM F963-07^{E1}* for rigid and pliable solids.

Requirement: A material is considered "flammable" if it ignites and burns with a self-sustained flame at a rate greater than 0.1 inches per second along its major axis.

NOTE:

It is our understanding that a sample is considered as having passed the test requirement if it self-extinguishes before burning 6 inches and prior to the lapse of 60 seconds.

Sample ID: Fractiles Magnetic Tiling Toy Sets – Large

	<u>Area of Initial Flame Contact</u>	<u>Burn Length (inches)</u>	<u>Time (seconds)</u>	<u>Burn Rate (inches/second)</u>
Burn 1	One Tile	--	--	IBE
Burn 2	One Board	--	--	DNI

- All components were tested; the above result represented the strictest burn-rate.

DNI = Did Not Ignite
IBE = Ignited, But Extinguished

Conclusion: Based upon the results of the test reported above, the submitted sample **does comply** with the requirements of the U.S. Federal Hazardous Substances Act, 16 CFR 1500.44 and ASTM F963-07^{E1}, Section 4.2.



3. Chemical Analysis: Total Lead in Substrates

Procedure: Acid digestion per **EPA 3050B/3051** was used and the total lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Requirement: The lead content shall not exceed 600 ppm of any part of the product as required by the **Consumer Product Safety Improvement Act of 2008 (CPSIA 2008)**.

However, as of August 14, 2009, the limit for total lead content will be lowered to 300 ppm.

Sample ID: Fractiles Magnetic Tiling Toy Sets – Large

Sample Utilized: Complete Product Digested

Test Results:

Parameter	Results (ppm)				Limit (ppm)
	1	2	3	4	
Total Lead	12.76	13.29	10.39	<10	600

Component	Description
1	Red Magnetic Tile
2	Yellow Magnetic Tile
3	Blue Magnetic Tile
4	Black Board

*Failed Item

Conclusion: When tested as specified, the submitted sample **does comply** with the requirements set forth in the **Consumer Product Safety Improvement Act of 2008 (CPSIA 2008/H.R. 4040)**, Title I, Section 101 for total lead content in substrates.



4. Chemical Analysis: Consumer Product Improvement Act of 2008 – Sec. 108 Phthalate Content:

PHthalate BAN: - Beginning February 10th, 2009 it shall be unlawful for any person to manufacture for sale, offer for sale, distribute in commerce, or import into the United States any children’s toy or child care article that contains concentrations of more than 0.1 percent of di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), or benzyl butyl phthalate (BBP).

INTERIM PROHIBITION: - Beginning February 10th, 2009 and until a final rule is promulgated, it shall be unlawful for any person to manufacture for sale, offer for sale, distribute in commerce, or import into the United States any children’s toy that can be placed in a child’s mouth or child care article that contains concentrations of more than 0.1 percent of diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), or di-n-octyl phthalate (DnOP).

PROCEDURE: Sample extraction by Soxhlet (ASTM D3421); Ultrasonic; or Microwave method
Analysis: Gas Chromatographic-Mass Spectrometric (GC-MS)

REQUIREMENTS:

- DEHP, DBP, or BBP – not to exceed 0.1%
- Interim Prohibition - DINP, DIDP, or DnOP – not to exceed 0.1%

Sample ID: Fractiles Magnetic Tiling Toy Sets – Large

	RESULT (% (w/w))					Limit(% (w/w))
	1	2	3	4	5	
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.1
Diethyl Hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	0.1
Butyl Benzyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.1
Di-(n-octyl) Phthalate (DnOP)	ND	ND	ND	ND	ND	0.1
Di-(iso-decyl) Phthalate (DIDP)	ND	ND	ND	ND	ND	0.1
Di-(iso-nonyl) Phthalate (DINP)	ND	ND	ND	ND	ND	0.1

Component	Description
1	Red Magnetic Tile
2	Yellow Magnetic Tile
3	Blue Magnetic Tile
4	Black Board
5	Clear Plastic Bag

**ND=Not Detected (<0.005%)

*Failed Item

Conclusion: The submitted toy and / or Childcare article(s) did not exceed the limit for the Phthalates specified in the Section 108 (a) and (b) of the Consumer Product Safety Improvement Act of 2008.



End of Report