Report #: R18316-B Rev.2
Date: 08/01/2018

Test Report

CUSTOMER: ATTENTION: Lisa Radcliffe

PunkinFutz

Conclusion:

Tested Samples	Standard	Result
Punkin Fidget Scratchy Square	ASTM F963-17 – Physical and Mechanical Testing	Pass
	ASTM F963-17 – Flammability	Pass
	ASTM F963-17 – Eight Heavy Elements	Pass
	CPSIA Section 101 – Total Lead in Substrates	Pass
	16 CFR 1303 – Total Lead in Coatings	Pass
	CPSIA Section 108 – Phthalates	Pass
	Washington / Maine – Phthalate	Pass
	California Prop. 65 – Lead and Cadmium	(See Results)
	California Prop. 65 – Phthalates	(See Results)

SIGNED FOR THE COMPANY BY:

Wm M Baumann

William M. Baumann
Laboratory Director

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 AM Testing & Services.
Tests identified with an asterisk (*) have been subcontracted.

Technical Report

Sample ID: Punkin Fidget Scratchy Square

Sample No.

1) Substrate: Purple Elastic Material
2) Substrate: Orange Synthetic Material Border
3) Substrate: Green Synthetic Material Wound Hook Hard
4) Substrate: Punkin Futz Tag With Inseparable Ink

Item 1: ASTM F963-17 – Physical and Mechanical Testing

Item 2: ASTM F963-17 – Flammability

Item 3: ASTM F963-17 – Eight Heavy Elements

Item 4: CPSIA Section 101 – Total Lead in Substrates

Item 5: 16 CFR 1303 – Total Lead in Coatings

Item 6: CPSIA Section 108 – Phthalates

Item 7: Washington / Maine – Phthalate

Item 8: California Prop. 65 – Lead and Cadmium

Item 9: California Prop. 65 – Phthalates

Item 1: Results for Mechanical testing according to ASTM F963-17; 16 CFR 1500 are listed below

FHSA 16 CFR 1500			
Sample ID:	**18316-B**	**Packaging Provided:**	**Yes**
Labeled Age Group:	**4 Years+**	**Appropriate Warning Labeling:**	**N/A**
Tested Age Grade	**4 Years+**	**Machine Washable Plush Toy:**	**N/A**
		Number of Samples:	**1**

The submitted samples underwent the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal regulations: -

Test	FHSA	Parameter
Impact Test	Section 1500.53 (b)	4 x 3.0 ft
Torque	Section 1500.53 (e)	4 in-lbf
Tension Test	Section 1500.53 (f)	15 lbf
Compression Test	Section 1500.53 (g)	30 lbf

ASTM F963-17: Mechanical Hazards

Clause	Testing Items	P	F	N/A	NT
4	**SAFETY REQUIREMENTS**				
4.1	Material quality (visual check on cleanliness)	☒	☐	☐	☐
4.2	Flammability (16 CFR 1500 or 16 CFR 1610)	☒	☐	☐	☐
4.3.5	Heavy elements	☒	☐	☐	☐
4.3.7	Stuffing materials (visual check on contaminations)	☐	☐	☒	☐
4.3.8	Phthalates in pacifiers, teethers, rattlers and toys	☒	☐	☐	☐
4.4	Electrical/Thermal Energy	☐	☐	☒	☐
4.5	**Sound producing toys**				
4.5.1.1	Equivalent sound pressure level by close to the ear toys – L_{Aeq}	☐	☐	☒	☐
4.5.1.2	Maximum A-weighted pressure level produced by floor or table top toys – L_{Aeq}	☐	☐	☒	☐
4.5.1.3	Equivalent sound pressure level produced by all other toys – L_{Aeq}	☐	☐	☒	☐
4.5.1.4	Peak sound produced by close to the ear toys – L_{Cpeak}	☐	☐	☒	☐
4.5.1.5	Peak sound pressure level – L_{Cpeak}	☐	☐	☒	☐
4.5.1.6	Peak sound pressure level produced by percussion caps and explosive – L_{Cpeak}	☐	☐	☒	☐
4.6	**Small objects**				
4.6.1	Toys intended for children under 36 months of age	☐	☐	☒	☐
4.6.2.1	Mouth actuated toys	☐	☐	☒	☐
4.6.2.2.1	Mouth actuated projectile launchers for non-detachable toys	☐	☐	☒	☐
4.6.2.2.2	Mouth actuated projectile launchers for detachable toys	☐	☐	☒	☐

4.6.2.3	Inflatable toys	☐	☐	☒	☐
4.6.3	Toys and games for 36 months to 72 months – Small part warning	☐	☐	☒	☐
4.7	**Accessible edges (under 8 years of age)**				
4.7.1	Potential sharp metal and glass	☐	☐	☒	☐
4.7.2	Functional sharp edge 48 to 96 months—warning	☐	☐	☒	☐
4.7.3	Metal toys	☐	☐	☒	☐
4.7.4	Molded toys	☐	☐	☒	☐
4.7.5	Exposed bolts or threaded rods	☐	☐	☒	☐
4.8	**Projections (under 8 years of age)**				
	General	☐	☐	☒	☐
4.8.1	Bath Toy Projections	☐	☐	☒	☐
4.9	**Accessible points (under 8 years of age)**				
4.9.1	Potential sharp point	☐	☐	☒	☐
4.9.2	Functional sharp point 48 to 96 months—warning	☐	☐	☒	☐
4.9.3	Wood	☐	☐	☒	☐
4.10	***Wires or rods***	☐	☐	☒	☐
4.11	***Nails and fasteners***	☐	☐	☒	☐
4.12	***Plastic film***	☐	☐	☒	☐
4.13	**Folding mechanism and hinges**				
4.13.1	Folding mechanisms	☐	☐	☒	☐
	4.13.1.1 Automatic locking device Remain in the recommended position	☐	☐	☒	☐
	4.13.1.2 Releasing of the mechanism (> 10 lbf)	☐	☐	☒	☐
4.13.2	Hinge line clearance	☐	☐	☒	☐
4.14	**Cords, Straps, and Elastics**				
4.14.1	Cords, straps and elastics in toys (less than 18 months of age)	☐	☐	☒	☐
4.14.1.1	Break-away feature	☐	☐	☒	☐
4.14.2	Self-retracting pull cords (less than 18 months of age)	☐	☐	☒	☐
4.14.3	Pull toys (less than 36 months of age)	☐	☐	☒	☐
4.14.4	Strings and lines for flying devices	☐	☐	☒	☐

4.14.5	Cords on Toy Bags intended for Children up to 18 months	☐	☐	☒	☐
4.15	**Stability and Over-load requirement**				
4.15.1	Stability of ride-on toys and toy seats	☐	☐	☒	☐
4.15.2	Sideway stability requirements (60 months of age or less) 4.15.2.1 Feet available for stabilization (Yes / No) 4.15.2.2 Feet unavailable for stabilization (Yes / No)	☐	☐	☒	☐
4.15.3	Fore and aft stability (60 months of age or less)	☐	☐	☒	☐
4.15.4	Stationary floor toys	☐	☐	☒	☐
4.15.5	Overload requirements for ride on toys and toy seats	☐	☐	☒	☐
4.15.6	Dynamic Strength Test for Wheeled Ride-on Toys	☐	☐	☒	☐
4.16	**Confined spaces**				
4.16.1	Ventilation	☐	☐	☒	☐
4.16.2	Closures (Opening force ≤ 10 lb)	☐	☐	☒	☐
4.16.3	Toys that enclose the head	☐	☐	☒	☐
4.17	***Wheels, tires, and axles (aged 96 months or less)***	☐	☐	☒	☐
4.18	**Holes, clearance, and accessibility of mechanisms**				
4.18.1	Accessible clearances for moveable segments (under 96 months of age)	☐	☐	☒	☐
4.18.2	Circular holes in rigid materials (aged 60 months or less)	☐	☐	☒	☐
4.18.3	**Chains and belts**				
	4.18.3.1 Supporting chains (36 months or less in age)	☐	☐	☒	☐
	4.18.3.2 Chains for belts for ride on toys	☐	☐	☒	☐
4.18.4	Inaccessibility of mechanisms (aged 60 months or less)	☐	☐	☒	☐
4.18.5	Winding keys (under 36 months of age)	☐	☐	☒	☐
4.18.6	Coil springs	☐	☐	☒	☐
4.19	**Simulated protective devices**				
4.19.1	Eye protection	☐	☐	☒	☐
4.19.2	Simulated safety protective devices – label	☐	☐	☒	☐
4.20	**Pacifiers (under 36 months of age)**				
4.20.2	Small objects	☐	☐	☒	☐
4.20.2	Nipple length: _____ (If > 16mm shall comply to 16 CFR 1511)	☐	☐	☒	☐

4.21.1	**All Projectile toys**				
4.21.1.1	Projectile with rigid leading edges	☐	☐	☒	☐
4.21.1.2	Projectiles with a foam shaft and a suction cup	☐	☐	☒	☐
4.21.1.3	Other projectile with suction cup	☐	☐	☒	☐
4.21.2.1	Small parts	☐	☐	☒	☐
4.21.2.2	Kinetic energy	☐	☐	☒	☐
4.21.2.3	Kinetic energy Density	☐	☐	☒	☐
4.21.2.4	Resilient Leading Edges	☐	☐	☒	☐
4.21.2.5	Projectiles sharp point and sharp edges	☐	☐	☒	☐
4.21.2.6	Discharge mechanisms and improvised projectiles	☐	☐	☒	☐
4.21.3	**Projectiles toys without stored energy**				
4.21.3.1	Mouth actuated projectile toys	☐	☐	☒	☐
4.21.3.2	Projectiles sharp point and sharp edges	☐	☐	☒	☐
4.21.3.3	Arrow	☐	☐	☒	☐
4.21.3.4	Projectiles in the form of an arrow	☐	☐	☒	☐
4.21.4	***Rotors***	☐	☐	☒	☐
4.22	**Teethers and teething toys**				
4.22.1	Rattle fixture	☐	☐	☒	☐
4.22.2	Supplemental fixture	☐	☐	☒	☐
4.23	**Rattles**				
4.23	16 CFR 1510 requirement and rattle fixture	☐	☐	☒	☐
4.23.1	Supplemental fixture	☐	☐	☒	☐
4.24	**Squeeze toys (under age of 18 months)**				
4.24.1	16 CFR 1510 dimensional requirements	☐	☐	☒	☐
4.24.2	Squeeze toys incorporating nearly spherical, hemispherical, or circular flared ends	☐	☐	☒	☐
4.25	**Battery operated toys**				
4.25.1	Marking of battery compartment	☐	☐	☒	☐
4.25.1.1	Toys containing non-replaceable batteries	☐	☐	☒	☐
4.25.2	The maximum direct current potential	☐	☐	☒	☐

4.25.3	Unable to charge non-rechargeable batteries	☐	☐	☒	☐
4.25.4	Accessibility of batteries (under 3)	☐	☐	☒	☐
4.25.5	Accessibility of batteries – small parts	☐	☐	☒	☐
4.25.6	Isolated circuits	☐	☐	☒	☐
4.25.7	Surface temperature of batteries (less than 71 °C)	☐	☐	☒	☐
4.25.8	Temperature requirement or combustion hazard	☐	☐	☒	☐
4.25.8.1	Rechargeable lithium ion or lithium ion polymer batteries	☐	☐	☒	☐
4.25.9	Instructions on safe battery usage	☐	☐	☒	☐
4.25.10	For Battery operated toys	☐	☐	☒	☐
4.25.10.1	Maximum temperature measured on the insulation	☐	☐	☒	☐
4.25.10.2	Risk of fire (battery powered ride on toys)	☐	☐	☒	☐
4.25.10.3	Wiring system of battery powered ride on toys	☐	☐	☒	☐
4.25.10.4	Switches	☐	☐	☒	☐
4.25.10.5	Circuit protection device	☐	☐	☒	☐
4.25.10.6	Battery and battery charges	☐	☐	☒	☐
4.25.10.7	Short-circuit protected	☐	☐	☒	☐
4.25.10.8	Strain relief	☐	☐	☒	☐
4.25.10.9	Battery-powered ride-on toys	☐	☐	☒	☐
4.25.11	**Toys contain secondary cells or secondary batteries**				
4.25.11.1	Cells used in lithium ion or lithium ion batteries	☐	☐	☒	☐
4.25.11.2	Lithium ion or lithium ion polymer batteries	☐	☐	☒	☐
4.25.11.3	Batteries contains lithium ion or lithium ion polymer cells shall provide enclosures	☐	☐	☒	☐
4.25.11.4	Charging voltage of the battery	☐	☐	☒	☐
4.25.11.4.1	For batteries charged outside of the toy	☐	☐	☒	☐
4.25.11.5	Maximum discharge current	☐	☐	☒	☐
4.25.11.6	Normal use charging and discharging of a secondary battery	☐	☐	☒	☐
4.25.11.7	Battery charges or power adopters plug into the electric main power	☐	☐	☒	☐
4.25.11.8	Circuit wiring connected to lithium or lithium ion polymer and NiMH secondary batteries	☐	☐	☒	☐
4.26	**Toys intended to be attached to a crib or playpen**				

4.26.1	Protrusions	☐	☐	☒	☐
4.26.2	Crib mobile	☐	☐	☒	☐
4.26.3	Crib gyms	☐	☐	☒	☐
4.27	***Stuffed and beanbag type toys (Tension Test on Seams)***	☐	☐	☒	☐
4.28	***Stroller and carriage toys***	☐	☐	☒	☐
4.29	***Art materials***	☐	☐	☒	☐
4.30	***Toy gun marking***	☐	☐	☒	☐
4.31	***Balloons – safety labeling***	☐	☐	☒	☐
4.32	**Certain toys with nearly spherical ends**				
4.32.1	Nearly spherical, hemispherical, circular flared, or dome-shaped ends of toys or components (up to the age of 18 months, for < 500g only)	☐	☐	☒	☐
4.32.2	Nearly spherical, hemispherical, circular flared, or dome-shaped ends of toys or components (for 18 months to 48 months, for length >= 2.25in, diameter >= 0.6in, weight < 500g only)	☐	☐	☒	☐
4.32.3	Preschool play figures (under 3 years of age)	☐	☐	☒	☐
4.33	**Marbles**				
4.33.1	Toys and games contain marble (at least 3 but less than 8 years of age)	☐	☐	☒	☐
4.34	**Balls**				
4.34.1	Balls/loose ball in toys for children under 36 months of age	☐	☐	☒	☐
4.34.2	Toys contain loose small ball (at least 3 but less than 8 years of age)	☐	☐	☒	☐
4.35	**Pompoms (under 3 years of age)**	☐	☐	☒	☐
4.36	**Hemispherical shaped objects (under 3 years of age)**				
4.36.6a	Have at least 2 openings: YES/NO	☐	☐	☒	☐
4.36.6b	Interrupted at center: YES/NO	☐	☐	☒	☐
4.36.6c	Have 3 openings: YES/NO	☐	☐	☒	☐
4.36.6d	Scalloped edge: YES/NO	☐	☐	☒	☐
4.36.6e	Opening at base or sidewall: YES/NO	☐	☐	☒	☐
4.37	***Yo-Yo elastic tether toys (3 years and older)***	☐	☐	☒	☐
4.37.1	Toys with an end mass greater than 0.02 kg (0.044 lb.)	☐	☐	☒	☐
4.38	**Magnets (up to 14 years)**				
4.38.1	Loose as-received hazardous magnet or magnetic component	☐	☐	☒	☐

4.38.2	Liberation of hazardous magnet or magnetic component	☐	☐	☒	☐
4.38.3	Magnetic/electrical experimental sets for ages 8 and up containing loose as-received hazardous magnet or as-received loosed magnetic component	☐	☐	☒	☐
4.39	***Jaw Entrapment in Handles and Steering Wheels (under age of 18 months)***	☐	☐	☒	☐
4.40	***Expending material***	☐	☐	☒	☐
4.41	**Toy chests**				
4.41.1.4	Lid support	☐	☐	☒	☐
4.41.2	Hinge line clearance	☐	☐	☒	☐
4.41.3	Closures	☐	☐	☒	☐
4.41.4.1	Ventilation	☐	☐	☒	☐
4.41.5	Toy chest instructional literature and producer's markings	☐	☐	☒	☐
5	**LABELING REQUIREMENTS**				
5.3.4	Safety labeling shall be displayed on the principle display panel	☐	☐	☒	☐
5.4	***Aquatic toys***	☐	☐	☒	☐
5.5	**Crib and playpen toys**				
5.5.1	Age grading	☐	☐	☒	☐
5.5.2	Safety labeling	☐	☐	☒	☐
5.6	**Mobile**				
5.6.1	Age grading	☐	☐	☒	☐
5.6.2	Safety labeling	☐	☐	☒	☐
5.7	***Stroller and carriage toys***	☐	☐	☒	☐
5.8	***Toys intended to be assembled by an adult***	☐	☐	☒	☐
5.9	***Simulated protective devices***	☐	☐	☒	☐
5.10	***Toys with functional sharp edges or points***	☐	☐	☒	☐
5.11	***Small objects, small balls, marbles, and balloons***	☐	☐	☒	☐
5.11.1.3	Warning type size	☐	☐	☒	☐
5.11.2	Small Parts as-received Warning Label 3yrs-6yrs	☐	☐	☒	☐
5.11.3	Small Ball Warning 3yrs +	☐	☐	☒	☐
5.11.3.1	Any toy or game intended for 3yrs-8yrs contains a small ball	☐	☐	☒	☐

5.11.4	Marbles for 3yrs +	☐	☐	☒	☐
5.11.4.1	Any toy or game intended for 3yrs-8yrs contains a marble	☐	☐	☒	☐
5.11.5	Latex Balloons	☐	☐	☒	☐
5.12	***Toy caps***	☐	☐	☒	☐
5.13	***Art materials***	☐	☐	☒	☐
5.14	***Electric toys***	☐	☐	☒	☐
5.15	**Battery operated toys**				
5.15.1	Battery powered ride on toys	☐	☐	☒	☐
5.15.2	Replaceable button or coin cell batteries	☐	☐	☒	☐
5.16	***Promotional materials***	☒	☐	☐	☐
5.17	***Magnets***	☐	☐	☒	☐
6	**INSTRUCTIONAL LITERATURE**				
6.1	Definition and Description	☒	☐	☐	☐
6.2	Crib and playpen toys	☐	☐	☒	☐
6.3	Mobiles	☐	☐	☒	☐
6.4	Toys intended to be assembled by an adult	☐	☐	☒	☐
6.5	Battery operated toys	☐	☐	☒	☐
6.6	Battery powered ride on toys	☐	☐	☒	☐
6.7	Toys in contact with food	☐	☐	☒	☐
6.8	Toy chests	☐	☐	☒	☐
7	**PRODUCER'S MARKING**				
7.1	***Name*** YES ***Address*** YES	☒	☐	☐	☐
7.2	***Battery powered ride on toys***	☐	☐	☒	☐
7.3	**Toy chest**				
7.3.1	Name YES/NO Address YES/NO	☐	☐	☒	☐
7.3.2	Code mark or other mark	☐	☐	☒	☐
7.3.3	Model number (if significant structural design or material modification changes)	☐	☐	☒	☐

Item 2: Results for Flammability testing according to ASTM F963-16 Sec. 4.2 & Annex A5 are listed below

ASTM F963-16 Section 4.2 & Annex A5: Flammability of Solids					
Sample	Ignition Point	Burn Length (in)	Burn Time (sec)	Burn Rate (in/sec)	Pass / Fail
1	Square - corner	.25	60.0	.004	Pass

DNI = Did not ignite in = Inches sec = Seconds IBSE = Ignited but self extinguished

Item 3: Results for testing according to ASTM F 963 Section 4.3.5 Eight Heavy Elements (metals) per CPSIA Section 106 are listed below

ASTM F 963 Section 4.3.5 - Eight Heavy Elements (metals) per CPSIA Section 106								
Analyte	Lead (Pb)	Cadmium (Cd)	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Chromium (Cr)	Mercury (Hg)	Selenium (Se)
Limit (mg/kg)	90	75	60	25	1000	60	60	500
Sample No.	Results (mg/kg)							
1	BDL	BDL	BDL	BDL	94.0	BDL	BDL	BDL
2	BDL	BDL	1.185	BDL	BDL	BDL	BDL	BDL
3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	BDL	BDL	2.953	BDL	266.0	BDL	BDL	BDL

BDL = Below Detectable Limit = <1.0ppm ppm = parts per million = mg/kg = milligrams per kilogram

Item 4: Results for Total Lead in Substrates testing according to CPSIA Section 101 are listed below

CPSIA Section 101: Total Lead in Substrates		
Analyte		Lead (Pb)
Substrate Limit (mg/kg)		100
Sample No.	Sample Type	Results (mg/kg)
1	Substrate	BDL
2	Substrate	BDL
3	Substrate	BDL
4	Substrate	BDL

BDL = <1.0ppm ppm = parts per million = mg/kg = milligrams per kilogram

Item 5: Results for Total Lead in Coatings testing according to CPSIA 16 CFR 1303 are listed below

CPSIA 16 CFR 1303: Total Lead in Coatings		
Analyte		Lead (Pb)
Coating Limit (mg/kg)		90
Sample No.	Sample Type	Results (mg/kg)
1	Coating	BDL
2	Coating	BDL
3	Coating	BDL
4	Coating	BDL

BDL = <1.0ppm ppm = parts per million = mg/kg = milligrams per kilogram

Item 6: Results for Phthalate testing according to CPSIA Section 108 are listed below

According to the Consumer Product Safety Improvement Act of 2008, the presence of three phthalates, DBP, BBP, and DINP, above 0.1% is prohibited in children's toys. Also, seven additional phthalates, DnOP, DINP, and DIDP, DIBP, DPENP, DHEXP, DCHP, are prohibited at a concentration of more than 1000 ppm in child care articles or toys that can be placed in a child's mouth or brought to the mouth.
The 1000 ppm limit for the ten banned phthalates applies to each individual phthalate, not the total amount of these phthalates in the product.

CPSIA Section 108: Phthalates										
Phthalate	DEHP	DBP	BBP	DINP	DIDP	DIBP	DPENP	DHEXP	DCHP	DnOP
Limit (mg/kg)	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K
Sample No.	Results (mg/kg)									
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = <100 mg/kg ppm = parts per million = mg/kg = milligrams per kilogram
*Note: Estimated result due to the response being over the curve limit.

Item 7: Results for Phthalate testing according to Washington / Maine are listed below

Washington / Maine: Phthalate	
Phthalate	DEP
Limit (mg/kg)	1K
Sample No.	Results (mg/kg)
1	ND
2	ND
3	ND
4	ND

ND = <100 mg/kg for phthalates ND = < 5 mg/kg for BPA ppm = parts per million = mg/kg = milligrams per kilogram
*Note: Estimated results due to the response being above the curve limit.

Item 8: Results for Lead and Cadmium testing according to California Prop. 65 are listed below

California Prop. 65: Total Lead and Cadmium		
Analyte	Lead (Pb)	Cadmium (Cd)
Sample No.	Results (mg/kg)	
1	BDL	BDL
2	BDL	BDL
3	BDL	BDL
4	BDL	BDL

BDL = <1.0ppm

ppm = parts per million = mg/kg = milligrams per kilogram

This data is for informational purposes only.

Item 9: Results for Phthalate testing according to California Proposition 65 are listed below

California Prop. 65: Phthalates							
Phthalate	DEHP	DBP	BBP	DINP	DIDP	DnHP	BPA
Sample No.	Results (mg/kg)						
1	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND

ND = <100 mg/kg for phthalates

ND = < 5 mg/kg for BPA

ppm = parts per million = mg/kg = milligrams per kilogram

***Note: Estimated results due to the response being above the curve limit.**

This data is for informational purposes only.

SAMPLE PHOTOS:

***** END OF REPORT *****