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Products

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Client: PLAN CREATIONS CO., LTD.
8 Moo 8, Trang-Palian Rd., Yantakao, Trang 92140 Thailand

Identification/Model No(s): DRUM SET
6440

Sample Receiving date: 2020-08-07

Testing Period: 2020-08-07 – 2020-08-17

Test Specification: **Test result:**

Test parameter were selected by client;

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. ASTM F963-17 : Standard Consumer Safety Specification for Toy Safety. 2. ASTM F963-17 : Flammability testing. 3. As specified by client, selected parts of the submitted sample(s) for compliance with Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA); <ul style="list-style-type: none"> - CPSIA Sect.101 : Lead in paint and accessible substrate materials - CPSIA Sect.108 : Phthalate Content. 4. Illinois Lead Poisoning Prevention Act 410 ILCS 45 Section 6 (Public Act 095-1019) 5. Phthalate content in accordance to California Proposition 65 - Safe Drinking Water And Toxic Enforcement Act of 1986. | <p>PASS</p> <p>PASS</p> <p>PASS</p> <p>PASS</p> <p>PASS</p> |
|---|---|

Other Information:

The provided age grade of the item(s) : 3Y+
Country of Origin: THAILAND

For and on behalf of
TÜV Rheinland Thailand Ltd.



2020-08-24

Chonnawat Kapillakan / Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



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ASTM F963-17: Mechanical and physical properties

4. Safety requirements	
4.1 Material Quality	Pass
4.2 Flammability	See Flammability
4.3 Toxicology	---
4.3.1 Hazardous Substance	n.a.
4.3.2 Manufacturing and Packaging of Food	n.a.
4.3.3 Indirect Food Additives	n.a.
4.3.4 Cosmetics	n.a.
4.3.5 Heavy Elements	See Chemical
4.3.6 Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather Origin	n.a.
4.3.7 Stuffing Materials	n.a.
4.3.8 DEHP (DOP)	n.a.
4.4 Electrical/ Thermal Energy	n.a.
4.5 Sound-Producing Toys	n.a.
4.6 Small Objects	n.a.
4.6.1 Toys that are intended for children under 36 months of age	n.a.
4.6.2 Mouth-Actuated Toys	n.a.
4.6.3 Small part warning label (at least 3 years but less than 6 years)	n.a.
4.7 Accessible Edges	Pass
4.7.1 Potentially hazardous sharp metal and glass edges in Toys	Pass
4.7.2 Toys containing potentially hazardous edges that are a nessessery part of the function of a toy	n.a.
4.7.3 Metal Toys	Pass
4.7.4 Molded Toys	Pass
4.7.5 Exposed Bolts or Threaded Rods	n.a.
4.8 Projections	Pass
4.8.1 Bath Toy Projections	n.a.
4.9 Accessible Points	Pass
4.9.1 Potentially hazardous sharp points	Pass
4.9.2 Accessible Sharp Point in Function of The Toy	n.a.
4.9.3 Wood	Pass
4.10 Wires or Rods	n.a.
4.11 Nail and Fasteners	Pass

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4.12 Plastic Film	Pass
4.13 Folding Mechanisms and Hinges	n.a.
4.13.1 Folding Mechanisms	n.a.
4.13.2 Hinge-Line clearance	n.a.
4.14 Cords, Straps and Elastics	n.a.
4.14.1 Cord, Straps and Elastics in Toys	n.a.
4.14.2 Self Retracting Pull Cords	n.a.
4.14.3 Pull Toys	n.a.
4.14.4 Strings and Lines for Flying Devices	n.a.
4.14.5 Cords on Toy Bags Intended for Children up to 18 Months	n.a.
4.15 Stability and Over-Load Requirements	n.a.
4.15.1 Stability of Ride-On Toys and Toy Seats	n.a.
4.15.2 Sideways Stability Requirements	n.a.
4.15.3 Fore and Aft Stability	n.a.
4.15.4 Stability of Stationary Floor Toys	n.a.
4.15.5 Overload Requirement for Ride-On Toys and Toy Seats	n.a.
4.15.6 Wheeled Ride-On Toys	n.a.
4.16 Confined Spaces	n.a.
4.16.1 Ventilation	n.a.
4.16.2 Closures	n.a.
4.16.3 Toys that Enclose the Head	n.a.
4.17 Wheels, tires and Axles	n.a.
4.18 Hole, Clearance and Accessibility of Mechanisms	n.a.
4.18.1 Accessible Clearance for Moveable Segment	n.a.
4.18.2 Circular Holes in Rigid Materials	n.a.
4.18.3 Chain and Belts	n.a.
4.18.4 Inaccessibility of Mechanisms	n.a.
4.18.5 Winding Keys	n.a.
4.18.6 Coil Springs	n.a.
4.19 Simulated Protective Devices (such as helmets, hats and goggles)	n.a.
4.20 Pacifiers	n.a.
4.21 Projectile Toys	n.a.



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4.22 Teethers and Teething Toys	n.a.
4.23 Rattles	n.a.
4.24 Squeeze Toys	n.a.
4.25 Battery-Operated Toys	n.a.
4.26 Toys Intended to be Attached to a Crib or Playpen	n.a.
4.27 Stuffed and Beanbag-Type Toys	n.a.
4.28 Stroller and Carriage Toys	n.a.
4.29 Art Materials	n.a.
4.30 Toys Gun marking	n.a.
4.31 Balloons	n.a.
4.32 Certain Toys with Nearly Spherical Ends	n.a.
4.32.1 Nearly spherical, hemispherical, circular flared or dome-shape ends of toys or components of toys	n.a.
4.32.2 Nearly spherical, hemispherical or dome-shape ends of toys fasteners	n.a.
4.32.3 Preschool Play Figures	n.a.
4.33 Marbles	n.a.
4.34 Balls	n.a.
4.35 Pompoms	n.a.
4.36 Hemispheric-Shaped Objects	n.a.
4.37 Yo Yo Elastic Tether Toys	n.a.
4.38 Magnets	n.a.
4.39 Jaw Entrapment in Handles and Steering Wheels	n.a.
4.40 Expanding materials	n.a.
4.41 Toy chests	n.a.
5. Labeling Requirements	
5.1 Federal Government Requirements	Pass
5.2 Age Grading Labeling	Pass
5.3 Safety Labeling Requirements	n.a.
5.4 Aquatic Toys	n.a.
5.5 Crib and Playpen Toys	n.a.
5.6 Mobiles	n.a.
5.7 Stroller and Carriage Toys	n.a.
5.8 Toys Intended to be Assembled by an Adult	n.a.
5.9 Simulated Protective Devices	n.a.

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5.10 Toys with Functional Sharp Edges and Sharp Points	n.a.
5.11 Small Objects, Small Balls, Marbles and Balloons	n.a.
5.12 Toy Caps	n.a.
5.13 Art Material	n.a.
5.14 Electric Toys	n.a.
5.15 Battery-Operated Toys	n.a.
5.16 Promotional Material	Pass
5.17 Magnets	n.a.
6. Instruction Literature	
6.1 Definition and Description	Pass
6.2 Crib and Playpen Toys	n.a.
6.3 Mobiles	n.a.
6.4 Toys Intended to be Assembled by an Adult	n.a.
6.5 Battery-Operated Toys	n.a.
6.6 Battery Powered Ride-on Toy	n.a.
6.7 Toys in Contact with Food	n.a.
6.8 Toy Chests	n.a.
7. Producer's Marking	
7.1 Either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor	Pass
7.2 Battery-Powered Ride-On toys	n.a.
7.3 Toy Chests	n.a.
8. Test Method	
8.1 General	Pass
8.5 Normal Use Testing	Pass
8.6 Abuse Testing	Pass
8.7. Impact Test	Pass
8.8 Torque Tests for Removal of Components	Pass
8.9 Tension Test for Removal of Components	Pass
8.10 Compression Test	n.a.

Remark:

n.a. = not applicable



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Flammability testing for solids and soft toys

Test Method: ASTM F963-17 clause 4.2, Annex A5

Sample Description	Burn Rate (inch/sec)	Requirement (inch/sec)
Drum	0.00 (DNI)	0.1
Drum Stick	0.02 (IBE)	0.1

Remark:

1. A toy shall be considered a flammable solid if it ignites and burns with self-sustaining flame at a rate greater than 0.1 inch/sec along its major axis.
2. Abbreviation: DNI denotes Did Not Ignite.
IBE denotes Ignite But Self-Extinguished.

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Material list

Material No.	Material	Color	Location
M001	Wood	Natural	Drum
M002	Coating	Clear Lacquer with Brown	Drum
M003	Rubber	Grey	Rubber
M004	Rubber	Red	Rubber
M005	Metal	Silver	Plate
M006	Metal with coated	Copper	Screw
M007	Metal with coated	Black	Screw

ASTM F963-17 Clause 4.3.5 Heavy Elements

Test Method: Test portion was extracted with acid according to ASTM F963-17 clause 8.3, CPSC-CH-E1003-09 (paint and similar surface coating materials) and CPSC-CH-E1002-08.1 (non-metal substrates), determination by ICP-MS.

Test No.	Material No.	Total [mg/kg]	Soluble heavy metal [mg/kg]							
		Pb	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		90*1/ 100*2	60	25	1000	75	60	90	60	500
		MDL	MDL							
		2	2	2	2	2	2	2	2	2
T001	M001	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T002	M002	n.d.	n.d.	n.d.	5	n.d.	n.d.	n.d.	n.d.	n.d.
T003	M003(*)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T004	M004(*)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Abbreviation: n.d. denotes Not Detected (<MDL)
MDL denotes Method Detection Limit
mg/kg denotes Milligram per Kilogram

Remark: (*) test result were referred from Test report No. 00003076-01 issued date 29.07.2020 and No. 242122081-01 issue date 06.08.2020.



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Lead in accessible substrate materials

Test Method: CPSC Test Method: US CPSC-CH-E1002-08.3: 2012 ‘Standard Operating Procedure for Determinating Total Lead (Pb) in Non-Metal Children Product’

Test item	Unit	RL	Result	Result	Result	Result
			M001	M002	M003(*)	M004(*)
Lead (Pb)	mg/kg	2	n.d.	n.d.	n.d.	n.d.
Comment	--	--	PASS	PASS	PASS	PASS

Test item	Unit	RL	Result	Result	Result
			M005(*)	M006	M007
Lead (Pb)	mg/kg	2	n.d.	n.d.	n.d.
Comment	--	--	PASS	PASS	PASS

- Note:**
1. ppm = part per million = mg/kg
 2. n.d. = not detected
 3. RL = reporting limit
 4. The result is calculated using the minimum sample weight.
 5. (*) test result were referred from Test report No. 00003076-01 issued date 29.07.2020, No. 242122081-01 issue date 06.08.2020 and No. 00003076-02 issue date 27.09.2020.
 6. Requirement as below table:

Requirements	Maximum Permissible Limit%
Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA)	
Lead in accessible substrate	0.01% (100 ppm)
Illinois Lead Poisoning Prevention Act 410 ILCS 45 Section 6 (Public Act 095-1019)	
Lead in children’s products	0.01% (100 ppm)
The warning statement shall contain at least the following: “WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. MAY GENERATE DUST CONTAINING LEAD.”	If more than 0.004% (40 ppm) but less than 0.01% (100 ppm)

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Phthalates Content

Test Method: US CPSC-CH-C1001-09.4:2018, determination by GC-MS

Result:

Parameter	CAS No.	Unit	Material No.	M002	M003(*)	M004(*)
			MDL	Result	Result	Result
Dibutyl phthalate (DBP)	84-74-2	%	0.0002	n.d.	n.d.	n.d.
Benzylbutyl phthalate (BBP)	85-68-7	%	0.0002	n.d.	n.d.	n.d.
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.0002	n.d.	n.d.	n.d.
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.0002	n.d.	n.d.	n.d.
Diisodecyl phthalate (DIDP)	26761-40-0	%	0.008	n.d.	n.d.	n.d.
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.008	n.d.	n.d.	n.d.
Diisobutyl phthalate (DIBP)	84-69-5	%	0.0002	n.d.	n.d.	n.d.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.0002	n.d.	n.d.	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.0002	n.d.	n.d.	n.d.
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.0002	n.d.	n.d.	n.d.

Abbreviation: n.d. denotes Not Detected (<RL)
 NA denotes Not Applicable
 RL denotes Reporting Limit
 % denotes Percentage

Remark:

1. (*) test result were referred from Test report No. 00003076-01 issued date 29.07.2020 and No. 242122081-01 issue date 06.08.2020.

2. Requirement is defined as below table

Requirements	Maximum Permissible Limit/%
US Public Law 110-314 (CPSIA) Sec. 108, 2008	
Toys and childcare articles	DBP or BBP or DEHP or DINP = 0.1%
Children's toy that can be placed in a child's mouth or childcare article	DINP or DNOP or DIDP = 0.1%
California Proposition 65 - Safe Drinking Water And Toxic Enforcement Act of 1986	
Toys for children under 6 years of age and childcare articles	DBP, BBP, DEHP, DIDP or DnHP <0.1%

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Sample photo:



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