



TEST REPORT

Report: **S1504906**
Date: 25-Nov-2015
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Client Name:	Twoodie Pbc		
Client Address:	Twoodie Pbc, 12 Tacoma Street, Park Orchards, 3114, Victoria, Australia		
Item Name:	Twoodie Gems - Walnut, Zelkova, Cherry, Oak Finished with Osmo oil from Germany Satin-Matt 3032		
UPC/Style/Item #:	Twoodie Gems	Supplier/Manufacturer:	Kukkia Co Ltd
Sample Size:	3 sets	Country of Origin:	Japan
Buyer/Customer:	Jeanne Bardin, Twoodie Pbc	Export Market(s):	London,UK
Receiving Date:	23-Nov-2015	Test Period:	23-Nov-2015 - 25-Nov-2015
Age Label:		Testing Age Grade:	0+
Add Information:			

Report Summary

#	Test	Reference Standard/Method	Result
1	Toy Safety: Mechanical and Physical Properties	EN71-1:2014	PASS
2	Toy Safety: Flammability	EN71-2:2011+A1:2014	PASS
3	Migration of Certain Elements EN 71-3 :2013+A1:2014	EN 71-3:2013+A1:2014	PASS

Signed for and on behalf of STS

Harry Tian
(Manager – Testing)

Signed for and on behalf of STS

Mandy Liu
(Chemical Test Manager)

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1. Toy Safety: Mechanical and Physical Properties – EN71-1:2014

PASS

Table 1.1

	Test Clauses	Results
4	General requirements	-
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.11	Mouth-Actuated toys and other toys intended to be put in the mouth	Pass
5	Toys intended for children under 36 months	-
5.1	General requirements	Pass
5.8	Shape and size of certain toys	Pass
6	Packaging	Pass
7	Warnings, markings and instructions for use	Pass
7.1	General	Pass

2. Toy Safety: Flammability – EN71-2:2011+A1:2014

PASS

Table 2.1

	Test Clauses	Results
4.1	General	Pass

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3. Migration of Certain Elements

PASS

Referring to EN 71-3:2013+A1:2014
General elements determined by ICP-MS
Chromium(VI) determined by IC-ICP-MS
Organic tin determined by GC-MS

Table 3.1

Compound	Material #1 Category III ^{*1}	Material #2 Category III ^{*1}	Limit (mg/kg)	RL (mg/kg)
1 Aluminum (Al)	N.D.	N.D.	70000	300
2 Antimony (Sb)	N.D.	N.D.	560	10
3 Arsenic(As)	N.D.	N.D.	47	5
4 Barium(Ba)	N.D.	N.D.	18750	50
5 Boron (B)	N.D.	N.D.	15000	50
6 Cadmium (Cd)	N.D.	N.D.	17	5
7 Chromium (III) (Cr)	N.D. ^{*2}	N.D. ^{*2}	460	0.2
8 Chromium (VI) (Cr)	N.D. ^{*2}	N.D. ^{*2}	0.2	0.1
9 Cobalt (Co)	N.D.	N.D.	130	10
10 Copper (Cu)	N.D.	N.D.	7700	10
11 Lead(Pb)	N.D.	N.D.	160	10
12 Manganese (Mn)	N.D.	N.D.	15000	10
13 Mercury (Hg)	N.D.	N.D.	94	10
14 Nickel (Ni)	N.D.	N.D.	930	10
15 Selenium(Se)	N.D.	N.D.	460	10
16 Strontium (Sr)	N.D.	N.D.	56000	100
17 Tin (Sn)	N.D.	N.D.	180000	10
18 Organic tin (Sn)	N.D. ^{*3}	N.D. ^{*3}	12 ^{*4}	4.9 ^{*3/1^{*4}}
19 Zinc (Zn)	N.D.	N.D.	46000	100
Conclusion	PASS	PASS	-	-



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Table 3.2

Compound		Material #3 Category III ^{*1}	Material #4 Category III ^{*1}	Limit (mg/kg)	RL (mg/kg)
1	Aluminum (Al)	N.D.	N.D.	70000	300
2	Antimony (Sb)	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	N.D.	18750	50
5	Boron (B)	N.D.	N.D.	15000	50
6	Cadmium (Cd)	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D. ^{*2}	N.D. ^{*2}	460	0.2
8	Chromium (VI) (Cr)	N.D. ^{*2}	N.D. ^{*2}	0.2	0.1
9	Cobalt (Co)	N.D.	N.D.	130	10
10	Copper (Cu)	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	160	10
12	Manganese (Mn)	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	N.D.	56000	100
17	Tin (Sn)	N.D.	N.D.	180000	10
18	Organic tin (Sn)	N.D. ^{*3}	N.D. ^{*3}	12 ^{*4}	4.9 ^{*3} /1 ^{*4}
19	Zinc (Zn)	N.D.	N.D.	46000	100
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) N.C.: Not conclusive

*1: Categories of various materials:
Category I: Dry, brittle, powder like or pliable material
Category II: Liquid or sticky material
Category III: Scraped-off material
*2: Reported as soluble Chromium.
*3: Reported as soluble Tin.
*4: Expressed as soluble Tributyltin.

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4. Material List

Table 4.1

Material #	Component	Description
1	Walnut wood piece	Dark brown wood
2	Cherry wood piece	Light brown wood
3	Maple wood piece	Natural wood
4	Oak wood piece	Brown wood

5. Photo(s)



Product

<<< <<< END OF REPORT >>> >>>