

TEST REPORT

No.: GJW2013-1458

Client :

Receiving Date : December 11, 2013 Completing Date : December 18, 2013

Test Sample : Vehicles Sound Puzzle Type/Model : 10267/267

Ages Grading : Over 2 Years

Test Items : EN 71-3:2013

Test Method : EN 71-3:2013

Test Instrument :
 1. Analytical Balance
 2. Thermostatic Oscillator
 3. Inductively Coupled Plasma Optical Emissions Spectroscopy (ICP-OES)
 4. Inductively Coupled Plasma Mass Spectrometry Equipped with High Performance Liquid Chromatography Module(HPLC-ICP-MS)

Test Conclusion :	According as	Conclusion
	EN 71-3:2013 and M&D's Requirement	Pass

Liang Jianneng

Xia Qingyun

Tested by:

Liang Jianneng

Reviewed by:

Xia Qingyun

Approved by:



Date of issue: 2013-12-15
 Seal of CVC

威凯检测技术有限公司
 Vkan Certification & Testing Co., Ltd.

Test Result

Table 1 Migration of Toxic Elements (General Element) for Category III

Test Items	Unit	LOQ	Client limit	Test Result				
				1	2	3	4	5
Aluminum	mg/kg	5	70000	6	798	12	N.D.	18
Antimony	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic	mg/kg	5	25	N.D.	N.D.	N.D.	N.D.	N.D.
Barium	mg/kg	5	1000	6	12	N.D.	N.D.	8
Boron	mg/kg	5	15000	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium	mg/kg	5	17	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium (combined)	mg/kg	0.2	Chromium (III) 460	0.4	0.5	N.D.	N.D.	N.D.
			Chromium (VI) 0.2					
Cobalt	mg/kg	5	130	N.D.	N.D.	N.D.	N.D.	N.D.
Copper	mg/kg	5	7700	N.D.	N.D.	N.D.	7	6
Lead	mg/kg	5	90	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese	mg/kg	5	15000	6	13	6	N.D.	8
Mercury	mg/kg	5	60	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel	mg/kg	5	930	N.D.	N.D.	N.D.	N.D.	42
Selenium	mg/kg	5	460	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium	mg/kg	5	56000	14	41	62	N.D.	8
Tin	mg/kg	5	Tin 180000	N.D.	N.D.	N.D.	N.D.	N.D.
			Organic tin 12					
Zinc	mg/kg	5	46000	N.D.	8	N.D.	N.D.	6

Table 1 Migration of Toxic Elements (General Element) for Category III (continued)

Test Items	Unit	LOQ	Client limit	Test Result		
				6	7	8
Aluminum	mg/kg	5	70000	N.D.	N.D.	51
Antimony	mg/kg	5	60	N.D.	N.D.	N.D.
Arsenic	mg/kg	5	25	N.D.	N.D.	N.D.
Barium	mg/kg	5	1000	N.D.	N.D.	15
Boron	mg/kg	5	15000	N.D.	N.D.	13
Cadmium	mg/kg	5	17	N.D.	N.D.	N.D.
Chromium (combined)	mg/kg	0.2	Chromium (III) 460	N.D.	N.D.	N.D.
			Chromium (VI) 0.2			
Cobalt	mg/kg	5	130	N.D.	N.D.	N.D.
Copper	mg/kg	5	7700	N.D.	N.D.	N.D.
Lead	mg/kg	5	90	N.D.	N.D.	N.D.
Manganese	mg/kg	5	15000	N.D.	N.D.	98
Mercury	mg/kg	5	60	N.D.	N.D.	N.D.
Nickel	mg/kg	5	930	N.D.	N.D.	N.D.
Selenium	mg/kg	5	460	N.D.	N.D.	N.D.
Strontium	mg/kg	5	56000	N.D.	N.D.	13
Tin	mg/kg	5	Tin 180000	N.D.	N.D.	N.D.
			Organic tin 12			
Zinc	mg/kg	5	46000	N.D.	N.D.	N.D.

Table 2 Migration of Toxic Elements (Chromium (III), Chromium (VI)) for Category III

Test Items	Unit	LOQ	Migration limit	Test Result	
				1	2
Chromium (III)	mg/kg	0.2	460	0.4	0.5
Chromium (VI)	mg/kg	0.05	0.2	N.D.	N.D.

Remarks:

- ①. "N.D." means "Not Detected"(<LOQ); "NA" means "Not Applicable".
- ②. If the migration of combined Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).
- ③. If Tin is below 5 mg/kg, compliance is also demonstrated.

Sample Description

1. Wood(board, puzzle pieces)
2. Product label(under the board) and battery use label(under the board)
3. Printed paper art(board, puzzle pieces)
4. Red plastic(on puzzle pieces, inside the board)
5. Black coating(under the puzzle pieces)
6. Light sensor(inside the board)
7. White plastic(cover of the battery box)
8. Wood (MDF)

Sample Photos



Remarks:

Purpose/Original: Chris BT

Shipment QTY.: 1080

Item No.: 10267/267

PO: 2051

Factory Name: DW

Country of Origin: China

Other Tests: EN 71-3:2013

Category: NA

Type: NA

Item Name: Vehicles Sound Puzzle

PDC: DW13250

Customer Name: ENTERTAINER

Goods Exported to: NA

CARTON#: NA

-----End of Report-----

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LTC-R-5037-EN71-1-A0