

Test Report

Report No. : TCT230321C015

Date : Mar. 31, 2023

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Applicant: Unicool Game Manufacturing
Address: Qiushuo Industrial Zone, Lisonglang Community,
Gongming Subdistrict, Guangming District, Shenzhen, Guangdong, China
518106

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Unicool Plastic Miniatures
Labeled Age Grading: Not stated
Requested Age Grading: Not stated
Age Group Applied in Testing: Over 3 years
Sample Received Date: 2023.03.21
Testing Period: 2023.03.21-2023.03.31
Test Result(s): Please refer to the following page(s).

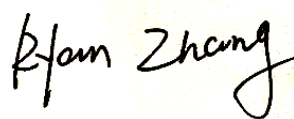
Test Requested	Conclusion
EN 71-3:2019+A1:2021 Migration of certain elements	Pass

Checked by



Justin

Approved by



Ryan Zhang
Technical Manager



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Test Results:**Migration of Certain Elements**

Test Method: With reference to EN 71-3:2019+A1:2021,

Analysis was performed by ICP-OES & ICP-MS ,IC, GC-MS.

Test Item(s)	Unit	MDL	Results		Limit (Category III)
			1	2	
Extractable Lead (Pb)	mg/kg	10	N.D.	N.D.	23
Extractable Antimony (Sb)	mg/kg	10	N.D.	N.D.	560
Extractable Arsenic (As)	mg/kg	10	N.D.	N.D.	47
Extractable Barium (Ba)	mg/kg	10	N.D.	N.D.	18750
Extractable Cadmium (Cd)	mg/kg	5	N.D.	N.D.	17
Extractable Chromium (III) (Cr III) [#]	mg/kg	10	N.D.	N.D.	460
Extractable Chromium (VI) (Cr VI) [#]	mg/kg	0.02	N.D.	N.D.	0.053
Extractable Mercury (Hg)	mg/kg	10	N.D.	N.D.	94
Extractable Selenium (Se)	mg/kg	10	N.D.	N.D.	460
Extractable Boron (B)	mg/kg	50	N.D.	N.D.	15000
Extractable Cobalt (Co)	mg/kg	10	N.D.	N.D.	130
Extractable Manganese (Mn)	mg/kg	10	N.D.	N.D.	15000
Extractable Strontium (Sr)	mg/kg	100	N.D.	N.D.	56000
Extractable Tin (Sn)	mg/kg	10	N.D.	N.D.	180000
Extractable Zinc (Zn)	mg/kg	100	N.D.	N.D.	46000
Extractable Copper (Cu)	mg/kg	10	N.D.	N.D.	7700
Extractable Aluminum (Al)	mg/kg	300	N.D.	N.D.	28130
Extractable Nickel (Ni)	mg/kg	10	N.D.	N.D.	930
Extractable Organic Tin [#]	mg/kg	2	N.D.	N.D.	12

Specimen Description:

1. Blue plastic
2. Blue plastic

Note:

- MDL = Method Detection Limit.
- N.D. = Not detected, less than MDL.
- # Unless the test results were marked with "#", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

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Limited Value for migration of certain elements:

Test Item(s)	Unit	Limit		
		Category I	Category II	Category III
Extractable Lead (Pb)	mg/kg	2	0.5	23
Extractable Antimony (Sb)	mg/kg	45	11.3	560
Extractable Arsenic (As)	mg/kg	3.8	0.9	47
Extractable Barium (Ba)	mg/kg	1500	375	18750
Extractable Cadmium (Cd)	mg/kg	1.3	0.3	17
Extractable Chromium (III) (Cr III)	mg/kg	37.5	9.4	460
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.005	0.053
Extractable Mercury (Hg)	mg/kg	7.5	1.9	94
Extractable Selenium (Se)	mg/kg	37.5	9.4	460
Extractable Boron (B)	mg/kg	1200	300	15000
Extractable Cobalt (Co)	mg/kg	10.5	2.6	130
Extractable Manganese (Mn)	mg/kg	1200	300	15000
Extractable Strontium (Sr)	mg/kg	4500	1125	56000
Extractable Tin (Sn)	mg/kg	15000	3750	180000
Extractable Zinc (Zn)	mg/kg	3750	938	46000
Extractable Copper (Cu)	mg/kg	622.5	156	7700
Extractable Aluminum (Al)	mg/kg	2250	560	28130
Extractable Nickel (Ni)	mg/kg	75	18.8	930
Extractable Organic Tin	mg/kg	0.9	0.2	12

Remark: The Limit is based on European Directive 2009/48/EC and its subsequent amendments.

Categories of various toy materials:

Category I: Dry, brittle, powder-like or pliable materials

Category II: Liquid or sticky materials

Category III: Scrapped-off materials

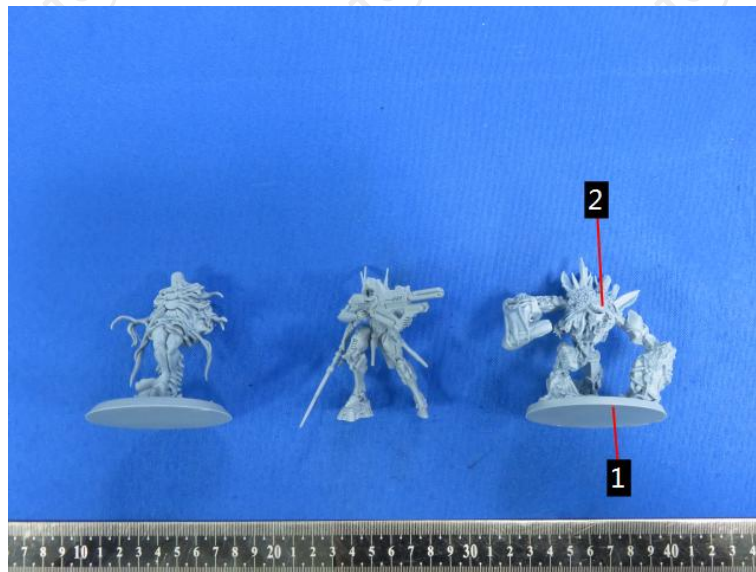
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Photo(s) of the sample(s)



***** End of Report *****

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