

TEST REPORT

Mechanical & Hardgoods Laboratory

Report No : HY/2018/70021

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Date : 2018/07/16

Chao Zhi Co., Ltd.

No. 198, Huantai E. Rd., Taiping Dist., Taichung City 411, Taiwan (R.O.C)

The following merchandise was submitted & identified by the applicant as:

Type of Product: Wisdom Pyramid A
Style/Item No: (YCZ701)NUMBER
Country of Origin: Taiwan
Date of Sample received: 2018/07/02
Test Performing Period: 2018/07/03 – 07/16

We have tested the submitted sample(s) as requested and the following results were obtained:

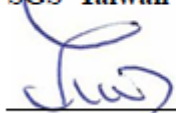
Test Requested

EN 71-3: 2013+A1:2014+A2:2017- Migration of Certain Elements

Test methods / Results

- Please see the next page(s)

Signed for and on behalf of
SGS Taiwan Ltd.


Iris Huang
Manager



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Test Methods / Results

European Standard - Safety of Toys : EN 71 Part 3: 2013+A1:2014+A2 :2017 - Migration of Certain Element

Category III: Scrapped-off toy material

Method: With reference to EN 71 Part 3:2013+A1:2014+A2:2017. Analysis of general elements was performed by ICP-MS. Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium III & Chromium VI were analyzed by LC-ICP-MS.

Test Items		Result(mg/kg)				RL	Limit
		1	2	3	4	(mg/kg)	(mg/kg)
Mass of trace amount	mg	66.4	66.3	47.1	62.2	---	---
Soluble Aluminum	(Al)	5990	N.D.	N.D.	N.D.	50	70,000
Soluble Antimony	(Sb)	N.D.	N.D.	N.D.	N.D.	10	560
Soluble Arsenic	(As)	N.D.	N.D.	N.D.	N.D.	10	47
Soluble Barium	(Ba)	538	N.D.	N.D.	N.D.	50	18,750
Soluble Boron	(B)	N.D.	N.D.	N.D.	N.D.	50	15,000
Soluble Cadmium	(Cd)	N.D.	N.D.	N.D.	N.D.	5	17
Soluble Cobalt	(Co)	N.D.	N.D.	N.D.	N.D.	10	130
Soluble Copper	(Cu)	N.D.	N.D.	N.D.	N.D.	50	7,700
Soluble Lead	(Pb)	N.D.	N.D.	N.D.	N.D.	10	160
Soluble Manganese	(Mn)	N.D.	N.D.	N.D.	N.D.	50	15,000
Soluble Mercury	(Hg)	N.D.	N.D.	N.D.	N.D.	10	94
Soluble Nickel	(Ni)	N.D.	N.D.	N.D.	N.D.	10	930
Soluble Selenium	(Se)	N.D.	N.D.	N.D.	N.D.	10	460
Soluble Strontium	(Sr)	N.D.	N.D.	N.D.	N.D.	50	56,000
Soluble Tin	(Sn)	N.D.	N.D.	N.D.	N.D.	4.9	180,000
Soluble Zinc	(Zn)	N.D.	N.D.	N.D.	N.D.	50	46,000
Soluble Chromium (III)	(Cr (III))	N.D.	N.D.	N.D.	N.D.	5	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	N.D.	N.D.	N.D.	0.18	0.2
Soluble Organic Tin [#]	-	N.D.	N.D.	N.D.	N.D.	-	12

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Remark: #

Test Items		Soluble Organic Tin Result(s)				MDL (mg/kg)
		1	2	3	4	
Methyl tin	(MeT)	N.D.	N.D.	N.D.	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	N.D.	N.D.	N.D.	0.5
Butyl tin	(BuT)	N.D.	N.D.	N.D.	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	N.D.	N.D.	N.D.	0.5
Tributyl tin	(TBT)	N.D.	N.D.	N.D.	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	N.D.	N.D.	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	N.D.	N.D.	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	N.D.	N.D.	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	N.D.	N.D.	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	N.D.	N.D.	N.D.	0.5

Description:

1. Purple coating.
2. Blue coating.
3. Yellow coating.
4. Green coating.

NOTE:

1. mg/kg = ppm
2. N.D. = Not Detected
3. RL= Reporting Limit
4. MDL =Method Detection Limit
5. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei

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Sample picture (As received)

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Front view

** End of Report **

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