

# Test Report

No.: EM190307207CE001

Date: Mar. 13, 2019

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**Applicant** : SHENZHEN SHINY TECHNOLOGY CO.,LTD  
**Address** : 201 A FACTORY BUILDING,ZHONGHUALIANHUA INDUSTRIAL PARK,TANGQIAN VILLAGE,ZHANGGE COMMUNITY,GUANLAN STREET,LONGHUA NEW DISTRICT SHENZHEN  
**Sample Name** : TPE/TPR  
**Received Date** : Mar. 07, 2019  
**Test Period** : Mar. 07, 2019 ~ Mar. 13, 2019  
**Test Requested** : As requested by client, according to EN 71-3:2013+A3:2018, to determine the content of the migration of certain elements in the submitted sample.  
**Test Results** : Please refer to next page (s).

**Executive Summary:**

STANDARD	CONCLUSION
EN 71-3:2013+A3:2018 – Migration of certain elements	PASS

Signed for and on behalf of  
EMTEK (Shenzhen) Co., Ltd.

Tested by: Grefore  
Grefore  
Test engineer

Reviewed by: Ethan  
Ethan  
Technical supervisor

Approved by: Jerry  
Jerry  
Authorized signatory  
Mar. 13, 2019



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## Test Sample List:

Sample No.	Sample Description
1	Translucent soft plastic

## Test Results:

Test Method: To refer to the EN 71-3:2013+A3:2018, Soluble elements were analyzed by ICP-OES. Chromium(III) , Chromium(VI) were analyzed by LC-ICP-MS. Organic Tin were analyzed by GC-MS.

Test Item(s)	Result(mg/kg)	MDL (mg/kg)
	1	
Aluminum (Al)	ND	10
Antimony (Sb)	ND	10
Arsenic (As)	ND	10
Barium (Ba)	ND	10
Boron (B)	ND	10
Cadmium (Cd)	ND	10
Chromium (Cr <sup>3+</sup> )#	ND	10
Chromium (Cr <sup>6+</sup> )#	ND	0.2
Cobalt (Co)	ND	10
Copper (Cu)	ND	10
Lead (Pb)	ND	1.0
Manganese (Mn)	ND	10
Mercury (Hg)	ND	10
Nickel (Ni)	ND	10
Selenium (Se)	ND	10
Strontium (Sr)	ND	10
Tin (Sn)	ND	10
Organic Tin*	ND	3
Zinc (Zn)	ND	10

- Note:
1. mg/kg = milligram per kilogram= ppm      ND = Not Detected (less than MDL)  
MDL = Method Detection Limit
  2. #Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected.
  3. \*Soluble Organic Tin was reported as Soluble Tin, further confirmation test will be required when Soluble Tin is detected.
  4. All the materials tested belong to Scraped-off toy material.

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Requirement of migration of certain elements content according to EN 71-3:2013+A3:2018:

Parameter	Dry, brittle, powder-like or pliable toy material (mg/kg)	Liquid or sticky toy material (mg/kg)	Scraped-off toy material (mg/kg)
Aluminum	5625	1406	70000
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	1500	375	18750
Boron	1200	300	15000
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium Cr(VI)	0.02	0.005	0.2
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	2	0.5	23
Manganese	1200	300	15000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic tin	0.9	0.2	12
Zinc	3750	938	46000

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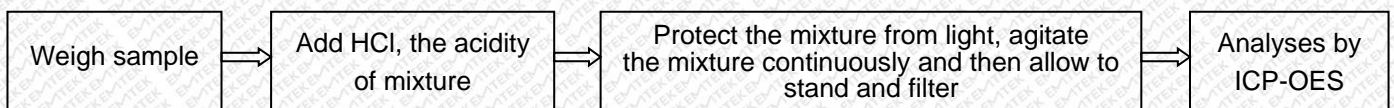
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## Sample Photo:



## Test Flowchart:



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

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