



# Test Report

Report No.: AiTSZ-250819006R  
Dated:2025-09-03

Applicant: OVERTURE 3D TECHNOLOGIES LLC  
Address: 10777 WESTHEIMER RD, SUITE 159, HOUSTON, 77042, TX, US

Manufacturer: OVERTURE 3D TECHNOLOGIES LLC  
Address: 10777 WESTHEIMER RD, SUITE 159, HOUSTON, 77042, TX, US

Sample Name: OVERTURE PLA Professional

Model number: 1.75mm 3D Printing Filament

Trade: OVERTURE

Tested Age Grade: N/A

Labeled Age Grading: N/A

Appropriate Age Grade: N/A

Sample Received Date: 2025-08-19

Test Period: 2025-08-19 to 2025-08-25

Test Result: Refer to following page(s)

Guangdong Asia Hongke Test Technology Co.,Ltd.

Prepared by:

*Oliver*

Name: Oliver  
**Project Handler**

Reviewed by:

*Lizhen*

Name: Lizhen  
**Designated Reviewer**





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Summary of Test Results:	
Test Requested:	Conclusion
A European Standard on Safety of Toys	Pass
1. EN 71-3:2019+A1:2021 – Migration of Certain Elements Tests	Pass



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Results:

A.1.EN 71-3:2019+A1:2021 – Migration of Certain Elements Tests

Test method: Preparation of the sample and migration procedure with reference to EN 71-3:2019+A1:2021, metal elements analysis is performed by Inductively Coupled Argon Plasma Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS) , organic tins analysis is performed by Gas Chromatography- (GC/MS) Mass Spectrometer and Cr (III) and Cr(VI) analysis is performed by Ion Chromatograph-Inductively Coupled Plasma Mass Spectrometer (IC-ICP-MS)

Results:

Description for specimen:

- (1) Deep red plastic

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Element	Unit	Results	MDL (mg/kg)	Permissible Limit(mg/kg)
		1		
Soluble Aluminium (Al)	mg/kg	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	2.0	
Soluble Arsenic (As)	mg/kg	N.D.	0.5	
Soluble Barium (Ba)	mg/kg	N.D.	50	
Soluble Boron (B)	mg/kg	N.D.	50	
Soluble Cadmium (Cd)	mg/kg	N.D.	0.3	
Soluble Chromium III( Cr3+)	mg/kg	N.D.	0.2	
Soluble Chromium VI( Cr6+)	mg/kg	N.D.	0.005	
Soluble Cobalt (Co)	mg/kg	N.D.	2.5	
Soluble Copper (Cu)	mg/kg	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	0.25	
Soluble Manganese (Mn)	mg/kg	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	1.0	
Soluble Nickel (Ni)	mg/kg	N.D.	10	
Soluble Selenium (Se)	mg/kg	N.D.	5	
Soluble Strontium (Sr)	mg/kg	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	0.15	
Soluble Organic Tin	mg/kg	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	50	
Conclusion	/	Pass	/	/

Note:

- N.D.= Not Detected
- MDL = Method Detection Limit
- \* = This test portion material is Category III
- mg/kg = ppm
- The result of Soluble Organic Tin is determined based on the result of Soluble Tin.



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Remark I:

The standard contains requirements for the migration of certain elements from the following categories of toy:

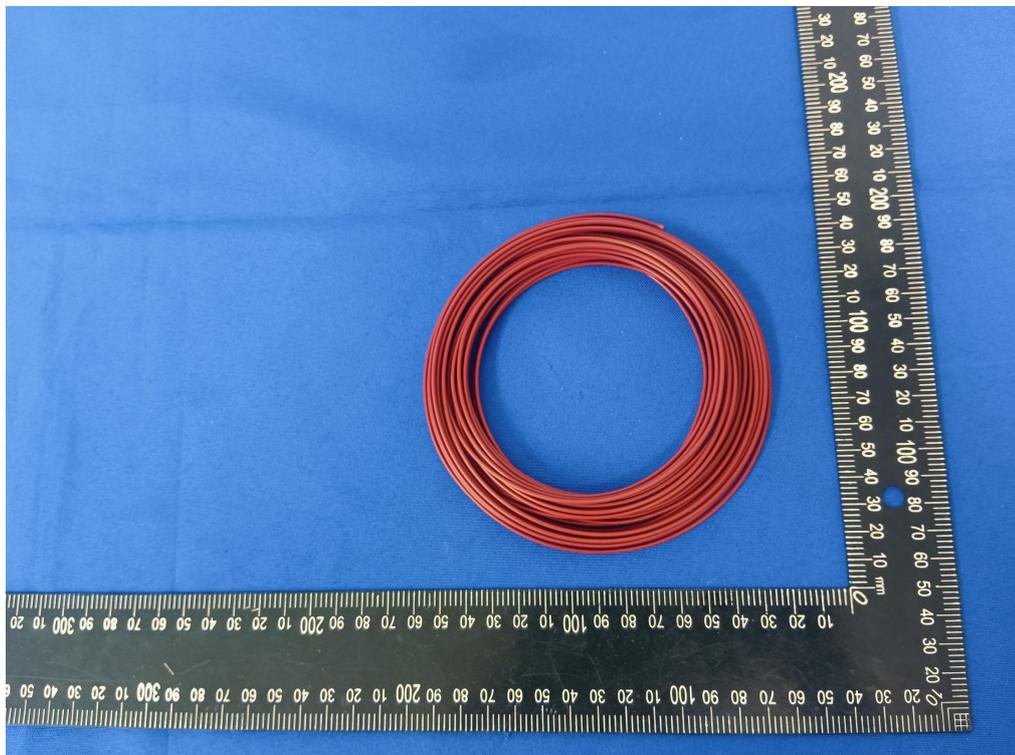
- Category I :Dry, brittle, powder like or pliable materials;
- Category II :Liquid or sticky materials;
- Category III : Scraped-off materials or textile or wood materials or paper products;
- The selection of test portions is strongly recommended by the client and the conclusion of chemical test is only for the selected portion.

Remark II:

Migration limits from toy materials:

Element	Category I mg/kg	Category II mg/kg	Category III mg/kg
Soluble Aluminium (Al)	2250	560	28130
Soluble Antimony (Sb)	45	11.3	560
Soluble Arsenic (As)	3.8	0.9	47
Soluble Barium (Ba)	1500	375	18750
Soluble Boron (B)	1200	300	15000
Soluble Cadmium (Cd)	1.3	0.3	17
Soluble Chromium III( Cr3+)	37.5	9.4	460
Soluble Chromium VI( Cr6+)	0.02	0.005	0.053
Soluble Cobalt (Co)	10.5	2.6	130
Soluble Copper (Cu)	622.5	156	7700
Soluble Lead(Pb)	2.0	0.5	23
Soluble Manganese (Mn)	1200	300	15000
Soluble Mercury (Hg)	7.5	1.9	94
Soluble Nickel (Ni)	75	18.8	930
Soluble Selenium (Se)	37.5	9.4	460
Soluble Strontium (Sr)	4500	1125	56000
Soluble Tin (Sn)	15000	3750.	180000
Soluble Organic Tin	0.9	0.2	12
Soluble Zinc (Zn)	3750	938	46000

## Photo of the Submitted Sample



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