Test Report

ID: RA0038384(4) Date: 2025-5-9

Application ID : JA0032221(0)

Applicant : Shenzhen Kean Silicone Product Co.,Ltd
#52 Xinhe Rd.Shangmugu Community, Pinghu, Longgang, Shenzhen,Guangdong, China

Sample : One (1) group of submitted sample(s) stated to be:
Sample Description : Silicone water cup
Model No. : CT06

Date of Receiving : 2025-4-23

Testing Period : 2025-4-23 to 2025-5-9

********FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)********

SIGN FOR AND ON BEHALF OF
UNITEC LABORATORY SERVICES (DONGGUAN) LTD.

XINLEI DU
LABORATORY MANAGER

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TEST REQUEST		RESULT
A）	AS REQUESTED BY THE APPLICANT, TO DETERMINE CADMIUM CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ENTRY 23 OF ANNEX XVII OF THE REACH REGULATION (EC) NO. 1907/2006 AND ITS AMENDMENTS.	PASS
B）	AS REQUESTED BY THE APPLICANT, TO DETERMINE LEAD CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ENTRY 63 OF ANNEX XVII OF THE REACH REGULATION (EC) NO. 1907/2006 AND ITS AMENDMENTS.	PASS
C）	AS REQUESTED BY THE APPLICANT, TO DETERMINE PHTHALATES CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ENTRY 51 AND 52 OF ANNEX XVII OF THE REACH REGULATION (EC) NO. 1907/2006 AND ITS AMENDMENTS.	PASS
D）	AS REQUESTED BY THE APPLICANT, TO DETERMINE POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ENTRY 50 OF ANNEX XVII OF THE REACH REGULATION (EC) NO. 1907/2006 AND ITS AMENDMENTS.	PASS
E）	AS REQUESTED BY THE APPLICANT, TO DETERMINE POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH GERMAN AFPS GS 2019:01 PAK.	PASS
F）	AS REQUESTED BY THE APPLICANT, TO DETERMINE ORGANOSTANNIC COMPOUNDS OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ENTRY 20 OF ANNEX XVII OF THE REACH REGULATION (EC) NO. 1907/2006 AND ITS AMENDMENTS.	PASS
G）	AS REQUESTED BY THE APPLICANT, TO PERFORM PHYSICAL AND MECHANICAL TEST OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH EN 14350: 2020+A1:2023(E). (EXCLUDING CLAUSE 7.6.)	PASS
H）	AS REQUESTED BY THE APPLICANT, TO DETERMINE MIGRATION OF CERTAIN ELEMENTS OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH EN 14350: 2020.	PASS
I）	AS REQUESTED BY THE APPLICANT, TO PERFORM VOLATILE COMPOUNDS CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH EN 14350: 2020.	PASS
J）	AS REQUESTED BY THE APPLICANT, TO PERFORM N-NITROSAMINES AND N-NITROSATABLES SUBSTANCE RELEASE OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH EN 14350: 2020.	PASS
K）	AS REQUESTED BY THE APPLICANT, TO PERFORM COLOUR FASTNESS OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH EN 14350: 2020.	PASS
L）	AS REQUESTED BY THE APPLICANT, TO PERFORM FORMALDEHYDE MIGRATION OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH EN 14350: 2020.	PASS

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Test Result(s):

A) REACH Annex XVII - Cadmium Content

With reference to EN1122: 2001 method B, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Cadmium Content (Cd)	---
Method Detection Limit (mg/kg)		2	---
Permissible Limit (mg/kg)		100	---
Test Part Description		Result (mg/kg)	Comment
No.1	Milk white silicone Caramel silicone	ND	Pass

Note: 1. mg/kg = Milligram per kilogram = ppm
2. ND = Not detected (< Method detection limit)

B) REACH Annex XVII - Lead Content

In-house Method, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Lead Content (Pb)	---
Method Detection Limit(mg/kg)		2	---
Permissible Limit (mg/kg)		500	---
Test Part Description		Result (mg/kg)	Comment
No.1	Milk white silicone Caramel silicone	4.2	Pass

Note: 1. mg/kg = Milligram per kilogram = ppm

C) REACH Annex XVII - Phthalates Content

With reference to EN14372:2004, analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Item		DBP	BBP	DEHP	DIBP	DINP	DNOP	DIDP	---
Method Detection Limit (%)		0.003	0.003	0.003	0.003	0.010	0.003	0.010	---
Permissible Limit (%)		0.1 (Sum)				0.1 (Sum)			---
Test Part Description		Result (%)							Comment
No.1	Milk white silicone Caramel silicone	ND	ND	ND	ND	ND	ND	ND	Pass

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Note: 1. % = Percentage by weight (w/w)
2. 0.1% = 1000ppm (mg/kg)
3. ND = Not detected (<Method detection limit)

D) REACH Annex XVII - 8 PAHs Content

With reference to AfPS GS 2019:01 PAK, analysis was performed Gas Chromatography/Mass Spectrometry (GC-MS).

PAHs	CAS No.	Result (mg/kg)	Permissible Limit (mg/kg)
		No.1	
Benzo[a]anthracene	56-55-3	ND	0.5
Chrysene	218-01-9	ND	0.5
Benzo[b]fluoranthene	205-99-2	ND	0.5
Benzo[k]fluoranthene	207-08-9	ND	0.5
Benzo[a]pyrene	50-32-8	ND	0.5
Dibenzo[a,h]anthracene	53-70-3	ND	0.5
Benzo[j]fluoranthen	205-82-3	ND	0.5
Benzo[e]pyrene	192-97-2	ND	0.5
Comment		Pass	---

Test Part Description:

No.1 Milk white silicone
Caramel silicone

Note: 1. mg/kg = Milligram per kilogram = ppm
2. ND = Not detected (<Method detection limit)
3. Method detection limit = 0.10mg/kg

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E) AfPS GS 2019:01 PAK - 15 PAHs Content

With reference to AfPS GS 2019:01 PAK, analysis was performed Gas Chromatography/Mass Spectrometry (GC-MS).

PAHs	CAS No.	Result (mg/kg)	Permissible Limit (mg/kg)
		No.1	Category 1
Naphthalene	91-20-3	ND	1
Phenanthrene	85-01-8	ND	1 (sum)
Anthracene	120-12-7	ND	
Fluoranthene	206-44-0	ND	
Pyrene	129-00-0	ND	
Benzo[a]anthracene	56-55-3	ND	0.2
Chrysene	218-01-9	ND	0.2
Benzo[b]fluoranthene	205-99-2	ND	0.2
Benzo[k]fluoranthene	207-08-9	ND	0.2
Benzo[a]pyrene	50-32-8	ND	0.2
Indeno[1,2,3-cd]pyrene	193-39-5	ND	0.2
Dibenzo[a,h]anthracene	53-70-3	ND	0.2
Benzo[g,h,i]perylene	191-24-2	ND	0.2
Benzo[j]fluoranthene	205-82-3	ND	0.2
Benzo[e]pyrene	192-97-2	ND	0.2
Sum of 15 PAHs	---	ND	1
Comment		Pass	---

Test Part Description:

No.1 Milk white silicone
Caramel silicone

Note: 1. mg/kg = Milligram per kilogram = ppm
2. ND = Not detected (<Method detection limit)
3. Method detection limit = 0.10mg/kg

Remark: Material categories

1. Category 1: Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds).
2. Category 2: Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30

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seconds) or short-term repetitive contact with the skin.

a) Use by children under 14 years, b) Other consumer products

3. Category 3: Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≤ 30 seconds).

a) Use by children under 14 years, b) Other consumer products

F) REACH Annex XVII - Organostannic Compounds Content

In-house method, analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Item		Tributyltin (TBT)	Triphenyltin (TPT)	Dibutyltin (DBT)	Dioctyltin (DOT)	---
Method Detection Limit (%)		0.005	0.005	0.005	0.005	---
Permissible Limit (%)		0.1	0.1	0.1	0.1	---
Test Part Description		Result (%)				Comment
No.1	Milk white silicone Caramel silicone	ND	ND	ND	ND	Pass

Note: 1. % = Percentage by weight (w/w)
2. 0.1% = 1000ppm (mg/kg)
3. ND = Not detected (<Method detection limit)

G) EN 14350: 2020+A1:2023(E) - Physical and Mechanical Test

Clause	Description	Result
4	Description	Pass
5	Test equipment and tolerances	Pass
6	Construction and mechanical properties – General and sample preparation	Pass
7	Construction and mechanical requirements and tests	Pass
7.1	Order of testing for construction and mechanical properties	Pass
7.2	Decoration, inscription and decals	Pass
7.3	Visual and tactile examination	Pass
7.4	Small parts	Pass
7.5	Additional requirements for sealing discs	NA
7.6	Requirements and tests for containers	#[1]
7.7	Requirements and tests for drinking accessories	Pass

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Clause	Description	Result
7.8	Protective covers	NA
7.9	Handles and clips	Pass
7.10	Finger traps	Pass
7.11	Protruding parts	Pass
7.12	Cords or loops	NA
9	Consumer packaging	#
10	Product information	#
10.1	General	#
10.2	Purchase information	#
10.3	Warnings	#
10.4	Instructions for use	#
10.5	Supply chain information for products that contain vulcanised rubber	#

Note: 1. NA = Not Applicable.

2. # =The packaging was not provided in the submitted sample; therefore, these clauses are not evaluated.

3. #[1] = As requested by the applicant, the clause was not evaluated.

H) EN 14350: 2020 - Migration of Certain Elements

With reference to EN 71-3:2019+A1:2021, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Gas Chromatography/Mass Spectrometry (GC-MS).

Test Item		Result (mg/kg)		Permissible Limit (mg/kg)	MDL (mg/kg)
		No.1	No.2		
Cadmium	(Cd)	ND	ND	3.6	0.1
Lead	(Pb)	ND	ND	5.0	1
Mercury	(Hg)	ND	ND	20	0.5
Chromium(III)	(Cr^{3+})	ND	ND	100	#
Chromium(VI)	(Cr^{6+})	ND	ND	0.002	#
Arsenic	(As)	ND	ND	10	1
Antimony	(Sb)	ND	ND	120	5
Selenium	(Se)	ND	ND	100	5
Barium	(Ba)	ND	ND	4000	5
Aluminum	(Al)	ND	ND	6000	5

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Test Item		Result (mg/kg)		Permissible Limit (mg/kg)	MDL (mg/kg)
		No.1	No.2		
Boron	(B)	ND	ND	3200	5
Cobalt	(Co)	ND	ND	28	1
Copper	(Cu)	ND	ND	1660	5
Manganese	(Mn)	ND	ND	600	5
Nickel	(Ni)	ND	ND	56	5
Strontium	(Sr)	ND	ND	12000	5
Tin	(Sn)	ND	ND	40000	5
Organic Tin*		ND	ND	2.5	0.2
Zinc	(Zn)	ND	ND	10000	5
Comment		Pass	Pass	---	---

Test Part Description:

No.1 Milk white silicone

No.2 Caramel silicone

Note: 1. mg/kg = Milligram per kilogram = ppm

2. MDL = Method detection limit
3. ND = Not detected (< MDL)
4. # =The substance is calculated by the results of Chromium element; MDL for Chromium element is 0.0025ppm.
5. * = Methyl tin, Butyl tin, Di-n-propyl tin, Dibutyl tin, Tributyl tin, n-Octyl tin, Tetrabutyl tin, Diphenyl tin, Di-n-octyl tin, Triphenyl tin, Dimethyl tin.
   The migration of individual organic tins are expressed as Tributyl tin, based on the relative molecular weight.

I) EN 14350: 2020 Volatile Compounds Content

With reference to EN 14350: 2020 clause 8.4.2.

Test Item	Result (%)		Permissible Limit (%)
	No.1	No.2	
Volatile Compounds Content	0.2	0.2	0.5
Comment	Pass	Pass	---

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Test Part Description:

No.1 Milk white silicone

No.2 Caramel silicone

Note: 1. % = Percentage by weight (w/w)
2. ND = Not detected (<Method detection limit)
3. Method detection limit = 0.05%

J) EN 14350: 2020 N-Nitrosamines and N-Nitrosatable Substances

With reference to EN 12868:2017, analysis was performed by Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS).

Test Item	Result (mg/kg)		Method Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	No.1	No.2		
N-Nitrosamines	ND	ND	0.01	0.01
N-Nitrosatable substances	ND	ND	0.1	0.1
Comment	Pass	Pass	---	---

Test Part Description:

No.1 Milk white silicone

No.2 Caramel silicone

Note: 1. mg/kg = Milligram per kilogram
2. N-Nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodiisobutylamine (NDiBA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPhA), N-nitroso-N-ethyl-N-phenylamine (NEPhA) and N-nitrosodiisononylamine (NDiNA).

K) EN 14350: 2020 Colour Fastness

With reference to EN 14350: 2020 clause 8.8.3.

Test Part Description		Result	Requirement
No.1	Milk white silicone	Negative	Negative
No.2	Caramel silicone	Negative	Negative

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Note: 1. Negative: No Colourant release observed;
Positive: Colourant release observed

L) EN 14350: 2020 Formaldehyde Migration

With reference to EN 14350: 2020 clause 8.7.2, analysis was performed by UV-Vis Spectrometry.

Test Item		Formaldehyde Migration	---
Method Detection Limit (mg/L)		0.15	---
Permissible Limit (mg/L)		0.5	---
Test Part Description		Result (mg/L)	Comment
No.1	Milk white silicone	ND	Pass
No.2	Caramel silicone	ND	Pass

Note: 1. mg/L = Milligram per liter of simulant
2. ND = Not detected (<Method detection limit)

The test result of the report is related to the item being tested only. UTL does not verify or be liable to any declare or declaration if the particular/specific item is not tested.

Decision rule was applied with reference to ILAC-G8:09/2019, Clause 4.2.1 & CNAS-GL015:2022, Clause 6.2.1 Guidelines on Decision Rules and Statements of Conformity.

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Sample Photo(s):








*** End of Report ***

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