Test Report

Date : 2023-09-21
No. : DP23090443

Applicant (Code:09301317)	:	Shenzhen Kean Silicone Product Co., Ltd #52 Xinhe Rd, Shangmugu Community, Pinghu, Longgang Shenzhen, Guangdong province China. 518111
Description of Sample(s)	:	Sample(s) received is/ are stated to be: silicone cup / Bib / spoon and fork / bowl / plate / silicone mat Style/ Item No.: CT05， Bib07, TB5 spoon and fork, Bowl01, Bowl02, CT07
Date Sample(s) Received	:	2023-09-14
Date Tested	:	2023-09-14 to 2023-09-21
Investigation Requested	:	Please refer to result summary on next page
Conclusion(s)	:	Please refer to result summary on next page

Yan Liang, Sky
Authorized Signatory

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Result Summary:

No.	Test Requested	Conclusion	Remark
1	Sensory test (odour and taste) for materials in contact with foodstuffs - EC No. 1935/2004 & § 30 and 31 LFGB	PASS	-
2	Extractable components for silicon materials in contact with foodstuffs - § 30 and 31 LFGB and BfR recommendation - Extractable components in 3%(w/v) acetic acid - Extractable components in 10%(v/v) ethanol - Extractable components in distilled water	PASS	-
3	Peroxides Value for Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS	-
4	Volatile organic matter content for materials in contact with Foodstuffs – § 30 and 31 LFGB and BfR recommendation	PASS	-
5	Polycyclic aromatic hydrocarbons (PAHs) content according to AfPS and ProdSG	PASS	-

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RESULT(S):

SENSORY TEST (ODOUR AND TASTE) FOR MATERIALS IN CONTACT WITH FOODSTUFFS - EC NO. 1935/2004 AND § 30 AND 31 LFGB
Method Used: DIN 10955

Sample Identity	Item/ Component Description	Style
1	Pastel blue silicone	-
2	Quartz pink silicone	-
3	Caramel silicone	-
4	Moody blue silicone	-
5	Mauve silicone	-

Maximum Allowable Limit :	Shall not be greater than 2.5 scale

Test Item(s)	Result (scale)				
	1	2	3	4	5
Odour	0	0	0	0	0
Off-flavour in distilled water	0	0	0	0	0
Off-flavour in olive oil	0	0	0	0	0
Conclusion	Pass	Pass	Pass	Pass	Pass

Note(s):
- scale 0 = No perception off-odour;
- scale 1 = Off-odour just perceptible (still difficult to define)
- scale 2 = Moderation off-odour;
- scale 3 = Moderately strong off-odour;
- scale 4 = Strong off-odour;

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EXTRACTABLE COMPONENTS FOR SILICON MATERIALS IN CONTACT WITH FOODSTUFFS – § 30 AND 31 LFGB AND BFR RECOMMENDATION

Method Used:
- extractable components in 3%(w/v) acetic acid at reflux for 2 hours
- extractable components in 10%(v/v) ethanol at reflux for 2 hours
- extractable components in distilled water at reflux for 2 hours

Sample Identity	Item/ Component Description	Style
1	Pastel blue silicone	-
2	Quartz pink silicone	-
3	Caramel silicone	-
4	Moody blue silicone	-
5	Mauve silicone	-

Maximum Allowable Limit :	0.5%*

Test Item(s)	Results (%)				
	1	2	3	4	5
Extractable components in 3%(w/v) acetic acid	ND	ND	ND	ND	ND
Extractable components in 10%(w/v) ethanol	ND	ND	ND	ND	ND
Extractable components in distilled water	ND	ND	ND	ND	ND
Conclusion	Pass	Pass	Pass	Pass	Pass

Note(s): - ND = Not detected
- Method detected limit: 0.1%

Remark(s): *The limit refers to BfR Recommendation XV.

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PEROXIDES VALUE FOR MATERIALS IN CONTACT WITH FOODSTUFFS – § 30 AND 31 LFGB AND BFR RECOMMENDATION

Method used: European Pharmacopeia 7.0, Ph. Eur. Method 2.5.5

Sample Identity	Item/ Component Description	Style
1	Pastel blue silicone	-
2	Quartz pink silicone	-
3	Caramel silicone	-
4	Moody blue silicone	-
5	Mauve silicone	-

Maximum Allowable Limit* :	Absent

Test Item(s)	Result	Conclusion
1	Absent	Pass
2	Absent	Pass
3	Absent	Pass
4	Absent	Pass
5	Absent	Pass

Remark(s): *The limit refers to BfR Recommendation III.

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VOLATILE ORGANIC MATTER CONTENT FOR MATERIALS IN CONTACT WITH FOODSTUFFS – § 30 AND 31 LFGB AND BFR RECOMMENDATION

Method Used: Ref. EN 14350-2020 clause 8.4

Sample Identity	Item/ Component Description	Style
1	Pastel blue silicone	-
2	Quartz pink silicone	-
3	Caramel silicone	-
4	Moody blue silicone	-
5	Mauve silicone	-

Maximum Allowable Limit* :	0.5 %

Test Item(s)	Results (%)				
	1	2	3	4	5
Volatile organic matter	ND	0.28	0.17	ND	0.29
Conclusion	Pass	Pass	Pass	Pass	Pass

Note(s): - ND = Not detected
- Method detection limit = 0.05 %

Remark(s): *The limit refers to BfR Recommendation XV

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTENT ACCORDING TO AFPS AND PRODSG

Method Used: AfPS GS 2019:01 PAK, solvent extraction and analyzed by Gas Chromatograph Mass Spectrometer.

Sample Identity	Item/ Component Description	Style
1	Pastel blue silicone	-
2	Quartz pink silicone	-
3	Caramel silicone	-
4	Moody blue silicone	-
5	Mauve silicone	-

Parameter	Category 1(unit:mg/kg)	Category 2(unit:mg/kg)		Category 3(unit:mg/kg)	
	Materials intended to be put in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for used by children up to three years with long-term skin contact (longer than 30 second) under intended use	Materials not covered by category 1, with long-term skin contact (longer than 30 seconds) or repeated short-term skin contact under intended or foreseeable use		Materials not covered by category 1 or 2, with short-term skin contact (up to 30 seconds) under intended or foreseeable use	
		2A: Used by children	2B: Other consumer products	3A: Used by children	3B: Other consumer products
Benzo[a]pyrene,BaP	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-c,d)pyrene	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene	<1	<2		<10	
Phenanthrene Pyrene	<1	<5	<10	<20	<50

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Anthracene Fluoranthene Sum of 4 PAHs					
Sum of 15 PAHs	<1	<5	<10	<20	<50

-	-	Result (mg/ kg)				
Tested Item(s)	-	1	2	3	4	5
Category	-	1	1	1	1	1
Name of PAHs	CAS No.	-	-	-	-	-
Phenanthrene	85-01-8	ND	ND	ND	ND	ND
Anthracene	120-12-7	ND	ND	ND	ND	ND
Fluoranthene	206-44-0	ND	ND	ND	ND	ND
Pyrene	129-00-0	ND	ND	ND	ND	ND
Sum of above 4 PAHs	-	ND	ND	ND	ND	ND
Benzo (a) anthracene	56-55-3	ND	ND	ND	ND	ND
Chrysene	218-01-9	ND	ND	ND	ND	ND
Benzo (a) pyrene	50-32-8	ND	ND	ND	ND	ND
Benzo (e) pyrene	192-97-2	ND	ND	ND	ND	ND
Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	ND	ND
Benzo (b) fluoranthene	205-99-2	ND	ND	ND	ND	ND
Benzo (j) fluoranthene	205-82-3	ND	ND	ND	ND	ND
Benzo (k) fluoranthene	207-08-9	ND	ND	ND	ND	ND
Naphthalene	91-20-3	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	ND	ND
Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	ND	ND
Sum of above 15 PAHs	-	ND	ND	ND	ND	ND
Conclusion	-	Pass	Pass	Pass	Pass	Pass

Note(s): - ND = Not Detected
- Method detection limit: 0.2 mg/kg
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- Conc. = Concentration

Remark(s): - As per specified by client, the category for the tested sample was category 1.

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PHOTO(S):



Caramel



Mauve



Moody blue



Pastel Blue



Quartz pink

******* END OF TEST REPORT*******

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