

Test Report

No.: SHAEC25014097703

Date: Jun 17, 2025

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Client Name: ZHENJING ZHENG YUAN SILICON MATERIAL CO., LTD

Client Address: NO.285 ZHIZHONG ROAD, SANMAO STREET, YANGZHONG CITY, JIANGSU

Sample Name: Silicone rubber

Model No.: ZY-44

The above sample(s) and information were provided by the client.

SGS Job No.: SHP25-019146

Sample Receiving Date: Jun 11, 2025

Testing Period: Jun 11, 2025 ~ Jun 17, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

	Test Requirement	Comment
1	Overall Migration	See Results
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Sensorial examination odour and taste test	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Polynuclear aromatic hydrocarbons (PAHs)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Volatile Organic Matter(VOM)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Total Lead and Cadmium	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Tom Ni

Tom Ni
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A.C002	SHA25-0140977-0001.C002	Beige translucent solid	Silicone Rubber

Remarks:

- (1) mg/dm² = milligram per square decimeter
 mg/inch² = milligram per square inches
 µg/cm² = microgram per square centimeter
 mg/L = milligram per litre
 mg/kg = milligram per kilogram
- (2) °C = degree Celsius
 °F = degree Fahrenheit
- (3) <= less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No	Overall Migration (LFGB Rubber)
A.C002	5.0 dm ² /kg

Overall Migration

Test Method: With reference to BfR Recommendation XXI for selection of conditions and EN 1186-1:2002 for test methods;
 EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition		
	10% Ethanol(V/V)	3% Acetic acid (W/V)	DI water
A.C002	40 °C, 0.5 hr	40 °C, 0.5 hr	40 °C, 0.5 hr

Simulant used	Unit(s)	RL	A.C002 (3 rd)	Comment
10% Ethanol(V/V)	mg/dm ²	3.0	ND	See Results
3% Acetic acid (W/V)	mg/dm ²	3.0	ND	See Results
DI water	mg/dm ²	3.0	ND	See Results

Notes:

- (1) Test condition & simulant were specified by client.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6

Test Media	Test Condition
	A.C002
Distilled water	40 °C, 0.5 hr

Test Item(s)	Limit	Unit(s)	A.C002
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment			Pass

Notes:

- Intensity scale (rounded at 0.5):
- 0 – no perceptible difference
 - 1 – just perceptible difference
 - 2 – slight difference
 - 3 – marked difference
 - 4 – strong difference

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Polynuclear aromatic hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A.C002
Benzo(a)pyrene(BaP)	50-32-8	0.2	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	192-97-2	0.2	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	56-55-3	0.2	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF)	205-99-2	0.2	mg/kg	0.2	ND
Benzo(j)fluoranthene(BjF)	205-82-3	0.2	mg/kg	0.2	ND
Benzo(k)fluoranthene(BkF)	207-08-9	0.2	mg/kg	0.2	ND
Chrysene(CHR)	218-01-9	0.2	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	0.2	mg/kg	0.2	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	0.2	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	0.2	mg/kg	0.2	ND
Phenanthrene(PHE)	85-01-8	0.2	mg/kg	0.2	ND
Pyrene(PYR)	129-00-0	0.2	mg/kg	0.2	ND
Anthracene(ANT)	120-12-7	0.2	mg/kg	0.2	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A.C002
Fluoranthene (FLT)	206-44-0	0.2	mg/kg	0.2	ND
Naphthalene (NAP)	91-20-3	0.2	mg/kg	0.2	ND
Acenaphthylene (ANY)	208-96-8	0.2	mg/kg	0.2	ND
Acenaphthene (ANA)	83-32-9	0.2	mg/kg	0.2	ND
Fluorene (FLU)	86-73-7	0.2	mg/kg	0.2	ND
Comment					Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Volatile Organic Matter (VOM)

Test Method: With reference to BfR test method-Determination of volatile compounds in silicone consumer products (09/2023).
Test condition: 200°C, 4 hrs

Test Item(s)	Limit	Unit(s)	RL	A.C002
Volatile organic matter (VOM)	0.5	%(w/w)	0.10	0.18
Comment				Pass

Notes:

(1) %w/w =percentage of weight by weight

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Total Lead and Cadmium

Test Method: Acidic digestion, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	RL	A.C002
Cadmium (Cd)	Absent	mg/kg	2	ND
Lead (Pb)	Absent	mg/kg	2	ND
Comment				Pass

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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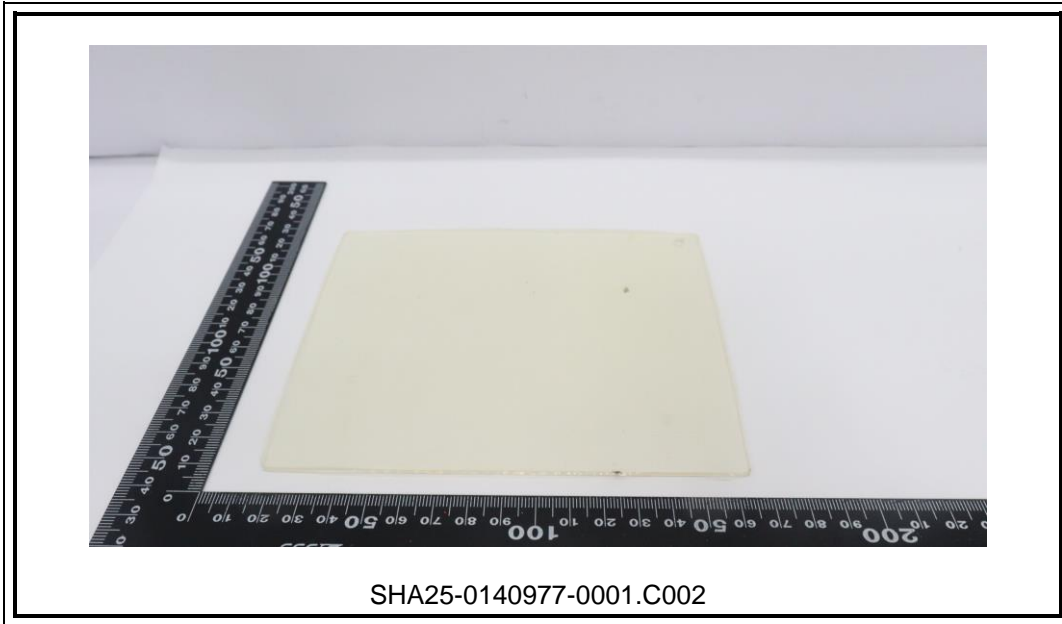
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Sample Photo:



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