

Polyestershoppen BV
Polyestershoppen BV, Oostbaan 680,
2841ML Moordrecht, Netherlands

**DEKRA Testing and Certification (Shanghai)
Ltd., Guangzhou branch**

Block 5, No.3, Qiyun Road, Huangpu District,
Guangzhou, Guangdong, China
Tel.: +86 20 6661 2000
Fax: +86 20 6661 2001

Contact
Devin Ai
Tel.: +86 20 6684 3294
E-Mail: devin.ai@dekra.com
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TEST REPORT

Test Report No. : **4909277.51** Version 1

Project No. : **4909277.00**

Test Report Date : **2023-09-18**

Job No. : 23-02288

Applicant : Polyestershoppen BV
Polyestershoppen BV, Oostbaan 680, 2841ML Moordrecht, Netherlands

Product Name : Addition cure silicone rubber

Model No. : DC-E series/A series/T series

Country of Destination : Netherlands

Country of Origin : China

Test Requested : 1. Regulation (EC) No 1935/2004 and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BfR recommendation
- Sensorial examination - odour and taste test
- Peroxide value
- Volatile Organic Matter (VOM)
- Extractable components
- PAHs content
- Total lead and cadmium
- Total Platinum (Pt)

Test Method : Please refer to next pages

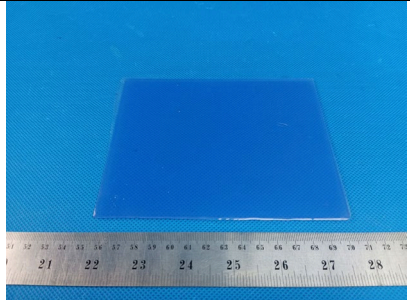
Sample Received : 2023-09-08

Testing Period : 2023-09-08 to 2023-09-18

Test Results

- following pages -

Resume:

No.	Parameter	Product photos:
		
1.	Sensorial examination - odour and taste test	PASS
2.	Peroxide value	PASS
3.	Volatile Organic Matter (VOM)	PASS
4.	Extractable components	PASS
5.	PAHs content	PASS
6.	Total lead and cadmium	PASS
7.	Total Platinum (Pt)	PASS

Guangzhou, September 18, 2023

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Chemical & Mechanical

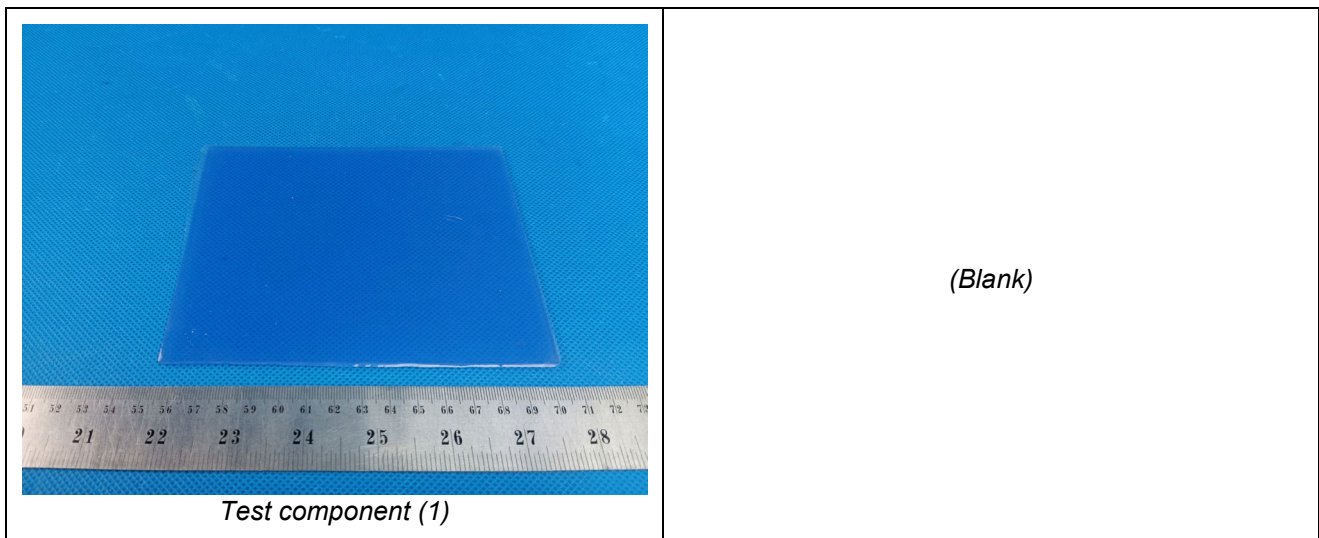



Devin Ai
Laboratory Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

Sample Descriptions:

No.	Description(s)	Material(s) (claimed by applicant)
(1)	Addition cure silicone rubber	Silicone (Blue)

Sample photo

TEST RESULTS

1. Regulation (EC) No 1935/2004 and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BfR recommendation

Sensorial examination - odour and taste test

With reference to DIN 10955:2023.

Parameter	Result	Limit
	(1)	
Sensorial examination odour (point scale)	0.5	2.5
Sensorial examination taste (point scale)	0.5	2.5

Remark:

Test procedure:

1. Clean the appliance as stated in the DFU under chapter "before first use".
2. Total immersion the surface by water and keep at 100°C for 4h.
3. Cool to room temperature.
4. Degust the taste and evaluate.
5. Test the Blank as the steps 1~4.

Scale evaluation:

- 0 = No perceptible odour/taste
- 1 = Odour/taste just perceptible (still difficult to define)
- 2 = Moderate odour/taste
- 3 = Moderately strong odour/taste
- 4 = Strong odour/taste

Peroxide value

With reference to European Pharmacopoeia, 5.0 chapter 2.5.5.

Parameter	Result	Limit
	(1)	
Peroxide value	Negative	Negative

Remark:

1. Negative = No peroxides detected

Volatile organic matter

With reference to LFGB BfR recommendation section XV.

Parameter	Test Condition	Result (%)	Limit (%)
		(1)	
Volatile organic matter	200°C, 4 h	0.36	0.5

Remark:

1. % = Percent by weight

Extractable components

With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46(2003) 362.

Parameter	Result (%)	Limit (%)
	(1)	
Extractives - Distilled water	<0.10	0.5
Extractives - 3%(w/v) Acetic acid	<0.10	0.5
Extractives - 10%(v/v) Ethanol	<0.10	0.5

Remark:

1. % = Percentage
2. Test condition was refluxing for 5 hours.

PAHs content

With reference to AfPS GS 2019:01 PAK (PAH) - Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAHs).

No.	Test Item	CAS No.	Result (mg/kg)	MDL (mg/kg)
			(1)	
1	Benzo[a]pyrene	50-32-8	N.D.	0.2
2	Benzo[e]pyrene	192-97-2	N.D.	0.2
3	Benzo[a]anthracene	56-55-3	N.D.	0.2
4	Benzo[b]fluoranthene	205-99-2	N.D.	0.2
5	Benzo[j]fluoranthene	205-82-3	N.D.	0.2
6	Benzo[k]fluoranthene	207-08-9	N.D.	0.2
7	Chrysene	218-01-9	N.D.	0.2
8	Dibenzo[a,h]anthracene	53-70-3	N.D.	0.2
9	Benzo[g,h,i]perylene	191-24-2	N.D.	0.2

No.	Test Item	CAS No.	Result (mg/kg)	MDL
			(1)	(mg/kg)
10	Indeno[1,2,3-c,d]pyrene	193-39-5	N.D.	0.2
11	Phenanthrene	85-01-8	N.D.	0.2
12	Pyrene	129-00-0	N.D.	0.2
13	Anthracene	120-12-7	N.D.	0.2
14	Fluoranthene	206-44-0	N.D.	0.2
15	Naphthalene	91-20-3	0.2	0.2
Sum of (11)~(14)		--	N.D.	--
Sum of 15 PAHs		--	0.2	--

Remark:

1. mg/kg = Milligram per kilogram
2. N.D. = Not Detected (Below MDL)
3. MDL = Method Detection Limit
4. Category Assessment = Category 1

Note:

Product Safety Commission (AfPS): The requirements of PAH testing in the course of GS mark certification.

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials in toys according to Directive 2009/48/ EC or materials in articles for use by children up to 3 years of long-term skin contact (longer than 30s) when used as intended(mg/kg)	Materials not covered in Cat. 1, with long-term skin contact (for longer than 30s) or repeated short-term Skin contact in case of intended or foreseeable use(mg/kg)	Use by children	Other Consumer-Products	Use by children
Benzo[a]pyrene	<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
Phenanthrene	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Pyrene					
Anthracene					

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials in toys according to Directive 2009/48/ EC or materials in articles for use by children up to 3 years of long-term skin contact (longer than 30s) when used as intended(mg/kg)	Materials not covered in Cat. 1, with long-term skin contact (for longer than 30s) or repeated short-term Skin contact in case of intended or foreseeable use(mg/kg)	Use by children	Other Consumer-Products	Use by children
Fluoranthene					
Naphthalene	<1	<2		<10	
Sum of 15 PAHs	<1	<5	<10	<20	<50

Total lead and cadmium

Microwave digestion. Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Parameter	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(1)		
Lead (Pb)	N.D.	10	100
Cadmium (Cd)	N.D.	10	100

Remark:

1. N.D. = Not Detected (Below MDL)
2. MDL = Method Detection Limit
3. mg/kg = milligram per kilogram

Total Platinum (Pt)

With reference to EPA 3052:1996. Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Parameter	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(1)		
Platinum (Pt)	N.D.	10	50

Remark:

1. mg/kg = milligram per kilogram

- 2. N.D. = Not Detected (below MDL)
- 3. MDL = Method Detection Limit

---End of Report---