

# Test Report

No. CANEC2204710301

Date: 30 Mar 2022

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Client Name : DONGGUAN TN SILICONE TECHNOLOGY CO.,LTD

Client Address : DONGAO INDUSTRIAL AREA TIANRAOBU VILLAGE HENGLI TOWN DONGGUAN CITY

Sample Name : Silicone Rubber TN950

Client Ref. Info. : Used for TN9XX、TN9XXX (X stands for 0~9)

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

SGS Job No. : CP22-013682 - SZ

Date of Sample Received : 23 Mar 2022

Testing Period : 23 Mar 2022 - 30 Mar 2022

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

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

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

## Result Summary :

| Test Requested                                                                                                                                                                                                                                                    | Conclusion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 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 & 31 with amendments and BfR recommendation –Extractable components       | 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 & 31 with amendments–Sensorial examination odour and taste test           | 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 & 31 with amendments and BfR recommendation–Lead and Cadmium              | 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 & 31 with amendments and BfR recommendation–Volatile organic matter (VOM) | PASS       |
| Polycyclic aromatic hydrocarbons (PAHs) Content                                                                                                                                                                                                                   | PASS       |



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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Ivy Ren*

Ivy Ren  
Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description                          | Material<br>(claimed by the client) |
|--------------|------------------|--------------------------------------|-------------------------------------|
| SN1          | CAN22-047103.001 | Colorless translucent silicone sheet | Silicone                            |

**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 & 31 with amendments and BfR recommendation –Extractable components**

Test Method : With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46 (2003) 362.

| <u>Simulant Used</u>                  | <u>Time</u> | <u>Temperature</u> | <u>Max. Permissible Limit</u> | <u>Result of 001</u> | <u>Comment</u> |
|---------------------------------------|-------------|--------------------|-------------------------------|----------------------|----------------|
| Distilled water                       | 4.0hr(s)    | 100°C              | 0.5%(w/w)                     | <0.1%(w/w)           | PASS           |
| 3% Acetic Acid (W/V) Aqueous Solution | 4.0hr(s)    | 100°C              | 0.5%(w/w)                     | <0.1%(w/w)           | PASS           |
| 10% Ethanol (V/V) Aqueous Solution    | 4.0hr(s)    | 100°C              | 0.5%(w/w)                     | <0.1%(w/w)           | PASS           |

Notes :

%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 & 31 with amendments– Sensorial examination odour and taste test**

Test Method : With reference to DIN10955:2004,direct contact method.  
No.of panelist:6

| <u>Test Item(s)</u>                       | <u>Limit</u> | <u>001</u>      |
|-------------------------------------------|--------------|-----------------|
| Test media                                | -            | Distilled water |
| Test Temperature (°C)                     | -            | 100             |
| Test time (hr)                            | -            | 4               |
| Sensorial examination odour (Point scale) | 2.5          | 0.0             |
| Sensorial examination taste (Point scale) | 2.5          | 0.0             |
| <b>Comment</b>                            |              | <b>PASS</b>     |

Notes :



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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 & 31 with amendments and BfR recommendation–Lead and Cadmium**

Test Method : Microwave digestion (GZTC CHEM-TOP-004-01) , analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u>  |
|---------------------|--------------|-------------|------------|-------------|
| Cadmium (Cd)        | ★            | mg/kg       | 2          | ND          |
| <b>Comment</b>      |              |             |            | <b>PASS</b> |
| Lead (Pb)           | ★            | mg/kg       | 2          | ND          |
| <b>Comment</b>      |              |             |            | <b>PASS</b> |

Notes :

1. mg/kg = milligram per kilogram of sample
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. ★= Absent

**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 & 31 with amendments and BfR recommendation–Volatile organic matter (VOM)**

Test Method : With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46 (2003) 362.

| <u>Test Item(s)</u>           | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u>  |
|-------------------------------|--------------|-------------|------------|-------------|
| Test Temperature              | -            | °C          | -          | 200         |
| Test Time                     | -            | hr(s)       | -          | 4.0         |
| Volatile organic matter (VOM) | 0.50         | %(w/w)      | 0.10       | 0.11        |
| <b>Comment</b>                |              |             |            | <b>PASS</b> |

Notes :

1. %w/w = percentage of weight by weight
2. MDL=Method Detection Limit



3. ND= Not Detected(less than MDL)

### Polycyclic aromatic hydrocarbons (PAHs) Content

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

| Test Item(s)                                                                                         | CAS NO.  | Limit | Unit  | MDL | 001 |
|------------------------------------------------------------------------------------------------------|----------|-------|-------|-----|-----|
| Sum of 18 PAHs                                                                                       | -        | 1.0   | mg/kg | -   | ND  |
| Sum of 7 PAHs Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | -        | 1.0   | mg/kg | -   | ND  |
| Naphthalene(NAP)                                                                                     | 91-20-3  | 1.0   | mg/kg | 0.1 | ND  |
| Acenaphthylene(ANY)                                                                                  | 208-96-8 | -     | mg/kg | 0.1 | ND  |
| Acenaphthene(ANA)                                                                                    | 83-32-9  | -     | mg/kg | 0.1 | ND  |
| Fluorene(FLU)                                                                                        | 86-73-7  | -     | mg/kg | 0.1 | ND  |
| Phenanthrene(PHE)                                                                                    | 85-01-8  | -     | mg/kg | 0.1 | ND  |
| Anthracene(ANT)                                                                                      | 120-12-7 | -     | mg/kg | 0.1 | ND  |
| Fluoranthene(FLT)                                                                                    | 206-44-0 | -     | mg/kg | 0.1 | ND  |
| Pyrene(PYR)                                                                                          | 129-00-0 | -     | mg/kg | 0.1 | ND  |
| Benzo(a)anthracene(BaA)                                                                              | 56-55-3  | 0.2   | mg/kg | 0.1 | ND  |
| Chrysene(CHR)                                                                                        | 218-01-9 | 0.2   | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)                                                                            | 205-99-2 | 0.2   | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)                                                                            | 205-82-3 | 0.2   | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)                                                                            | 207-08-9 | 0.2   | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)                                                                                  | 50-32-8  | 0.2   | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)                                                                                  | 192-97-2 | 0.2   | mg/kg | 0.1 | ND  |
| Indeno(1,2,3-c,d)pyrene(IPY)                                                                         | 193-39-5 | 0.2   | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA)                                                                          | 53-70-3  | 0.2   | mg/kg | 0.1 | ND  |
| Benzo(g,h,i)perylene(BPE)                                                                            | 191-24-2 | 0.2   | mg/kg | 0.1 | ND  |

Comment

PASS

Notes :

1. mg/kg = milligram per kilogram of sample
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)



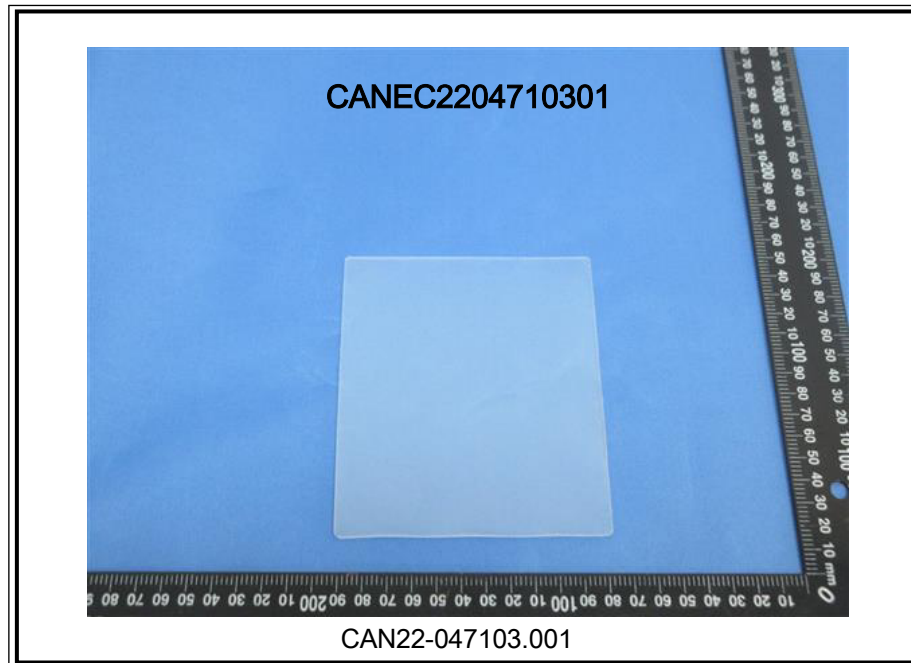
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Sample photo:



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



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