SHANDONG DONGYUE SILICONE MATERIAL CO., LTD.
HUANTAI TANGSHAN,ZIBO,SHANDONG

The following sample(s) was/were submitted and identified on behalf of the clients as : Silicone rubber mixed by Fumed silica

| | |
|---|---|
| SGS Job No. : | SP21-010061 - SH |
| Model No. : | DY-9170 |
| Client Ref. Information : | DY-9120/DY-9130/DY-9140/DY-9150/DY-9160/DY-9180/DY-9250/DY-9260/DY-9270 |
| Date of Sample Received : | 09 Apr 2021 |
| Testing Period : | 09 Apr 2021 - 19 Apr 2021 |
| 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). |

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Result Summary :

| Test Requested | Conclusion |
|---|---|
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable component | PASS |
| 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 |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Lead(Pb) and cadmium(Cd) | PASS |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Total Platinium (Pt) | PASS |
| 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 |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Organic-Tin compounds | PASS |
| 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 |

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

scan to see the report
SHAEC2106438505

Dora Hu
Approved Signatory

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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description | Material (claimed by the client) |
|---|---|---|---|
| SN1 | SHA21-064385.011 | White translucent soft solid sheet | Silicone rubber |

Remarks :

(1) mg/dm² = milligram per square decimeter
(2) mg/kg = milligram per kilogram
(3) ℃= degree Celsius
(4) < = less than
(5) MDL = Method Detection Limit
(6) ND = Not Detected ( < MDL)

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable component**

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

| Simulant Used | Time | Temperature | Max. Permissible Limit | Result of 011 Extactives | Conclusion |
|---|---|---|---|---|---|
| Deionized water | 8.0hr(s) | 100℃ | 0.5% (w/w) | <0.1% (w/w) | PASS |
| 10% Ethanol | 8.0hr(s) | 100℃ | 0.5% (w/w) | <0.1% (w/w) | PASS |

Notes :

(1) Test condition & simulant were specified by client

**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 10955:2004
No. of panelist: 6

| Test Item(s) | Limit | *011* |
|---|---|---|
| Test media | - | DW |
| Test time (hr(s)) | - | 8 |
| Temperature(℃) | - | 100 |
| Sensorial examination odour (Point scale) | 2.5 | 0 |
| Sensorial examination taste (Point scale) | 2.5 | 0 |

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| Test Item(s) | Limit | *011* |
|---|---|---|
| **Conclusion** | | **PASS** |

Notes :

Scale evaluation:
0 – no perceptible difference
1 – just perceptible difference
2 – slight difference
3 – marked difference
4 – strong difference
DW= Distilled water

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Lead(Pb) and cadmium(Cd)**

Test Method : Total lead and cadmium: Acidic digestion, analysis was performed by ICP-OES.

| Test Item(s) | Limit | Unit | MDL | *011* |
|---|---|---|---|---|
| Total Lead | ★ | mg/kg | 2 | ND |
| Total Cadmium | ★ | mg/kg | 2 | ND |
| **Conclusion** | | | | **PASS** |

Notes :

(1) ★= Absent

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Total Platinium (Pt)**

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

| Test Item(s) | Limit | Unit | MDL | *011* |
|---|---|---|---|---|
| Total Platinium (Pt) | 50 | mg/kg | 20 | ND |
| **Conclusion** | | | | **PASS** |

**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 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003)362

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| Test Item(s) | Limit | Unit | MDL | *011* |
|---|---|---|---|---|
| Time | - | hr(s) | - | 4.0 |
| Temperature | - | ℃ | - | 200 |
| Volatile organic matter (VOM) | 0.5 | % (w/w) | 0.10 | 0.12 |
| **Conclusion** | | | | **PASS** |

Notes :

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

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Organic-Tin compounds**

Test Method : With reference to DIN ISO 17353: 2005, analysis was performed by GC-MS.

| Test Item(s) | Limit | Unit | MDL | *011* |
|---|---|---|---|---|
| Monobutyl tin (MBT) | ★ | mg/kg | 0.02 | ND |
| Dibutyl tin (DBT) | ★ | mg/kg | 0.02 | ND |
| Tributyl tin (TBT) | ★ | mg/kg | 0.02 | ND |
| Tetrabutyltin (TeBT) | ★ | mg/kg | 0.02 | ND |
| Tri-n-propyltin(TPT) | ★ | mg/kg | 0.02 | ND |
| Monooctyl tin (MOT) | ★ | mg/kg | 0.02 | ND |
| Dioctyl tin (DOT) | ★ | mg/kg | 0.02 | ND |
| **Conclusion** | | | | **PASS** |

Notes :

(1) ★= Absent

**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 2014:01 PAK, analysis was performed by GC-MS.

| Test Item(s) | Limit | Unit | MDL | 011 |
|---|---|---|---|---|
| Sum of 18 PAHs | 1 | mg/kg | - | ND |
| Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene | 1 | mg/kg | - | ND |
| Naphthalene(NAP) | 1 | mg/kg | 0.1 | ND |
| Acenaphthylene(ANY) | - | mg/kg | 0.1 | ND |
| Acenaphthene(ANA) | - | mg/kg | 0.1 | ND |

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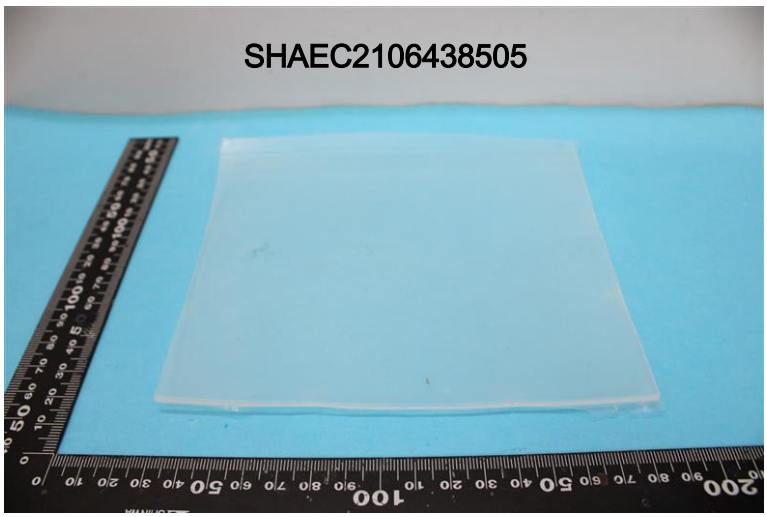
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| Test Item(s) | Limit | Unit | MDL | 011 |
|---|---|---|---|---|
| Fluorene(FLU) | - | mg/kg | 0.1 | ND |
| Phenanthrene(PHE) | - | mg/kg | 0.1 | ND |
| Anthracene(ANT) | - | mg/kg | 0.1 | ND |
| Fluoranthene(FLT) | - | mg/kg | 0.1 | ND |
| Pyrene(PYR) | - | mg/kg | 0.1 | ND |
| Benzo(a)anthracene(BaA) | 0.2 | mg/kg | 0.1 | ND |
| Chrysene(CHR) | 0.2 | mg/kg | 0.1 | ND |
| Benzo(b)fluoranthene(BbF) and Benzo(j)fluoranthene(BjF) | 0.2 | mg/kg | 0.1 | ND |
| Benzo(k)fluoranthene(BkF) | 0.2 | mg/kg | 0.1 | ND |
| Benzo(a)pyrene(BaP) | 0.2 | mg/kg | 0.1 | ND |
| Benzo(e)pyrene(BeP) | 0.2 | mg/kg | 0.1 | ND |
| Indeno(1,2,3-c,d)pyrene(IPY) | 0.2 | mg/kg | 0.1 | ND |
| Dibenzo(a,h)anthracene(DBA) | 0.2 | mg/kg | 0.1 | ND |
| Benzo(g,h,i)perylene(BPE) | 0.2 | mg/kg | 0.1 | ND |
| **Conclusion** | | | | **PASS** |

Sample photo:




SHA21-064385.011

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*** End of Report ***

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