



## Test Report

No.: GZHL1908032731IP

Date: Aug 13, 2019

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HUGS AND THINGS  
VROEGE VAN TOL 31,6851VR HUISSEN,THE NETHERLANDS

Sample Description : SILICONE MASTERBATCH

Manufacturer

Supplier

Country of Origin : CHINA

Country of Destination : THE NETHERLANDS

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : CAN19-154426

Sample Receiving Date : Aug 06, 2019

Test Performing Date : Aug 06, 2019 to Aug 13, 2019

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following page(s)

| Test Requested                                                                                                                                                                                                                     | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| EN71-12:2016 - N-Nitrosamines and N-Nitrosatable substances                                                                                                                                                                        | PASS   |
| To determine Migration of Certain Elements in the selected parts on the submitted sample(s) with reference to EN 71-3:2013+A3:2018.                                                                                                | PASS   |
| Determination of Lead (Pb) content in the submitted sample(s) with reference to Entry 63 of Commission Regulation (EU) No 2015/628 amending Annex XVII to REACH Regulation (EC) No 1907/2006.                                      | PASS   |
| To determine the Cadmium Content in the selected part(s) of submitted sample(s) with reference to Entry 23 of Commission Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006.                       | PASS   |
| Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample(s) with reference to Entry 50 paragraph 5 to 8 of Commission Regulation (EU) 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006. | PASS   |
| Annex I of European Regulation Persistent Organic Pollutants (POPs) (EU) 2019/1021 - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)                                                                           | PASS   |



SGS-CSTC  
Guangzhou Branch

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



GZHL1908032731IP

Yan Lau  
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Personnel

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### Test Results :

### Test Part Description :

| SGS Sample ID    | Description        |
|------------------|--------------------|
| CAN19-154426.001 | Yellow silicone    |
| CAN19-154426.002 | Darkcyan silicone  |
| CAN19-154426.003 | Dark blue silicone |
| CAN19-154426.004 | Mauve silicone     |
| CAN19-154426.005 | White silicone     |
| CAN19-154426.006 | Black silicone     |
| CAN19-154426.007 | Red silicone       |

### Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### BS EN71-12:2016-N-nitrosamines and N-nitrosatable substances

Test Method : With reference to BS EN71-12:2016, analysis was performed by by LC-MS/MS.

| Test Item(s)              | Limit | Unit  | MDL   | 001         | 002         | 003         |
|---------------------------|-------|-------|-------|-------------|-------------|-------------|
| N-Nitrosamines            | 0.010 | mg/kg | 0.010 | ND          | ND          | ND          |
| N-Nitrosatable substances | 0.10  | mg/kg | 0.10  | ND          | ND          | ND          |
| <b>Comment</b>            |       |       |       | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> |

| Test Item(s)              | Limit | Unit  | MDL   | 004         | 005         | 006         |
|---------------------------|-------|-------|-------|-------------|-------------|-------------|
| N-Nitrosamines            | 0.010 | mg/kg | 0.010 | ND          | ND          | ND          |
| N-Nitrosatable substances | 0.10  | mg/kg | 0.10  | ND          | ND          | ND          |
| <b>Comment</b>            |       |       |       | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> |

| Test Item(s)              | Limit | Unit  | MDL   | 007         |
|---------------------------|-------|-------|-------|-------------|
| N-Nitrosamines            | 0.010 | mg/kg | 0.010 | ND          |
| N-Nitrosatable substances | 0.10  | mg/kg | 0.10  | ND          |
| <b>Comment</b>            |       |       |       | <b>PASS</b> |



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Notes :

N-Nitrosamines tested : N-nitrosodiethanolamine (NDELA), N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPPhA), N-nitroso-N-ethyl-N-phenylamine (NEPhA), N-nitrosodiisononylamine (NDiNA), N-nitrosodiisopropylamine (NDiPA) and N-Nitrosodiisobutylamine (NDiBA).

### EN 71-3:2013+A3:2018-Migration of Certain Elements ( Category III: Scrapped-off toy material )

Test Method : With reference to EN 71-3:2013+A3:2018. Analysis was performed by ICP-OES.

| Test Item(s)                      | Limit  | Unit  | MDL  | 001  | 002  | 003  |
|-----------------------------------|--------|-------|------|------|------|------|
| Soluble Aluminum(Al)              | 70000  | mg/kg | 50   | ND   | ND   | 173  |
| Soluble Arsenic (As)              | 47     | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Boron(B)                  | 15000  | mg/kg | 50   | 137  | ND   | ND   |
| Soluble Barium (Ba)               | 18750  | mg/kg | 50   | ND   | ND   | ND   |
| Soluble Cadmium (Cd)              | 17     | mg/kg | 5    | ND   | ND   | ND   |
| Soluble Cobalt(Co)                | 130    | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Chromium (III) (Cr (III)) | 460    | mg/kg | 5    | ND   | ND   | ND   |
| Soluble Copper(Cu)                | 7700   | mg/kg | 50   | ND   | ND   | ND   |
| Soluble Mercury (Hg)              | 94     | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Manganese(Mn)             | 15000  | mg/kg | 50   | ND   | ND   | ND   |
| Soluble Nickel(Ni)                | 930    | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Lead (Pb)                 | 23     | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Antimony (Sb)             | 560    | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Selenium (Se)             | 460    | mg/kg | 10   | ND   | ND   | ND   |
| Soluble Zinc (Zn)                 | 46000  | mg/kg | 50   | ND   | ND   | ND   |
| Soluble Strontium(Sr)             | 56000  | mg/kg | 50   | ND   | ND   | ND   |
| Soluble Tin(Sn)                   | 180000 | mg/kg | 4.9  | ND   | ND   | ND   |
| Soluble Organic Tin               | 12     | mg/kg | -    | ND   | ND   | ND   |
| Soluble Chromium (VI) (Cr (VI) )  | 0.2    | mg/kg | 0.18 | ND   | ND   | ND   |
| Comment                           |        |       |      | PASS | PASS | PASS |

| Test Item(s)         | Limit | Unit  | MDL | 004 |
|----------------------|-------|-------|-----|-----|
| Soluble Aluminum(Al) | 70000 | mg/kg | 50  | ND  |
| Soluble Arsenic (As) | 47    | mg/kg | 10  | ND  |
| Soluble Boron(B)     | 15000 | mg/kg | 50  | ND  |
| Soluble Barium (Ba)  | 18750 | mg/kg | 50  | ND  |



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|                                   |        |       |      |    |
|-----------------------------------|--------|-------|------|----|
| Soluble Cadmium (Cd)              | 17     | mg/kg | 5    | ND |
| Soluble Cobalt(Co)                | 130    | mg/kg | 10   | ND |
| Soluble Chromium (III) (Cr (III)) | 460    | mg/kg | 5    | ND |
| Soluble Copper(Cu)                | 7700   | mg/kg | 50   | ND |
| Soluble Mercury (Hg)              | 94     | mg/kg | 10   | ND |
| Soluble Manganese(Mn)             | 15000  | mg/kg | 50   | ND |
| Soluble Nickel(Ni)                | 930    | mg/kg | 10   | ND |
| Soluble Lead (Pb)                 | 23     | mg/kg | 10   | ND |
| Soluble Antimony (Sb)             | 560    | mg/kg | 10   | ND |
| Soluble Selenium (Se)             | 460    | mg/kg | 10   | ND |
| Soluble Zinc (Zn)                 | 46000  | mg/kg | 50   | ND |
| Soluble Strontium(Sr)             | 56000  | mg/kg | 50   | ND |
| Soluble Tin(Sn)                   | 180000 | mg/kg | 4.9  | ND |
| Soluble Organic Tin               | 12     | mg/kg | -    | ND |
| Soluble Chromium (VI) (Cr (VI) )  | 0.2    | mg/kg | 0.18 | ND |

Comment

PASS

Notes :

- 1.Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2013+A3:2018.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2013+A3:2018.

### Entry 63 of Commission Regulation (EU) No 2015/628 amending Annex XVII to REACH Regulation (EC) No 1907/2006- Lead

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052:1996), analysis was performed by ICP-OES.

| Test Item(s) | Limit | Unit  | MDL | 001 | 002 | 003 |
|--------------|-------|-------|-----|-----|-----|-----|
| Lead (Pb)    | 500   | mg/kg | 2   | ND  | ND  | ND  |

| Test Item(s) | Limit | Unit  | MDL | 004 | 005 | 006 |
|--------------|-------|-------|-----|-----|-----|-----|
| Lead (Pb)    | 500   | mg/kg | 2   | ND  | ND  | ND  |

| Test Item(s) | Limit | Unit  | MDL | 007 |
|--------------|-------|-------|-----|-----|
| Lead (Pb)    | 500   | mg/kg | 2   | ND  |



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**Entry 23 of Commission Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 Cadmium and its compounds**

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052:1996), analysis was performed by ICP-OES.

| Test Item(s) | CAS NO.   | Limit | Unit   | MDL    | 001  | 002  | 003  |
|--------------|-----------|-------|--------|--------|------|------|------|
| Cadmium (Cd) | 7440-43-9 | 0.01  | %(w/w) | 0.0005 | ND   | ND   | ND   |
| Comment      |           |       |        |        | PASS | PASS | PASS |

| Test Item(s) | CAS NO.   | Limit | Unit   | MDL    | 004  | 005  | 006  |
|--------------|-----------|-------|--------|--------|------|------|------|
| Cadmium (Cd) | 7440-43-9 | 0.01  | %(w/w) | 0.0005 | ND   | ND   | ND   |
| Comment      |           |       |        |        | PASS | PASS | PASS |

| Test Item(s) | CAS NO.   | Limit | Unit   | MDL    | 007  |
|--------------|-----------|-------|--------|--------|------|
| Cadmium (Cd) | 7440-43-9 | 0.01  | %(w/w) | 0.0005 | ND   |
| Comment      |           |       |        |        | PASS |

**Entry 50 paragraph 5 to 8 of Commission Regulation (EU) 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)**

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

| Test Item(s)                | CAS NO.  | Unit  | MDL | 001 |
|-----------------------------|----------|-------|-----|-----|
| Benzo(a)anthracene(BaA)     | 56-55-3  | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | ND  |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND  |

| Test Item(s)            | CAS NO. | Unit  | MDL | 002 |
|-------------------------|---------|-------|-----|-----|
| Benzo(a)anthracene(BaA) | 56-55-3 | mg/kg | 0.1 | ND  |



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|-----------------------------|----------|-------|-----|----|
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | ND |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | ND |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND |

| Test Item(s)                | CAS NO.  | Unit  | MDL | 003 |
|-----------------------------|----------|-------|-----|-----|
| Benzo(a)anthracene(BaA)     | 56-55-3  | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | ND  |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND  |

| Test Item(s)                | CAS NO.  | Unit  | MDL | 004 |
|-----------------------------|----------|-------|-----|-----|
| Benzo(a)anthracene(BaA)     | 56-55-3  | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | ND  |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND  |

| Test Item(s)                | CAS NO.  | Unit  | MDL | 005 |
|-----------------------------|----------|-------|-----|-----|
| Benzo(a)anthracene(BaA)     | 56-55-3  | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | ND  |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND  |



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## Test Report

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| Test Item(s)                | CAS NO.  | Unit  | MDL | 006 |
|-----------------------------|----------|-------|-----|-----|
| Benzo(a)anthracene(BaA)     | 56-55-3  | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | 0.1 |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | 0.2 |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND  |

| Test Item(s)                | CAS NO.  | Unit  | MDL | 007 |
|-----------------------------|----------|-------|-----|-----|
| Benzo(a)anthracene(BaA)     | 56-55-3  | mg/kg | 0.1 | ND  |
| Benzo(a)pyrene(BaP)         | 50-32-8  | mg/kg | 0.1 | ND  |
| Benzo(e)pyrene(BeP)         | 192-97-2 | mg/kg | 0.1 | ND  |
| Chrysene(CHR)               | 218-01-9 | mg/kg | 0.1 | ND  |
| Benzo(b)fluoranthene(BbF)   | 205-99-2 | mg/kg | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)   | 205-82-3 | mg/kg | 0.1 | ND  |
| Benzo(k)fluoranthene(BkF)   | 207-08-9 | mg/kg | 0.1 | ND  |
| Dibenzo(a,h)anthracene(DBA) | 53-70-3  | mg/kg | 0.1 | ND  |

- The requirements of Polycyclic Aromatic Hydrocarbons content are summarized as below:

| Entry 50 paragraph 5 to 8 of Commission Regulation (EU) 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs) |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| - Toys or childcare product                                                                                                                                          | 0.5 mg/kg each |
| - Consumer product                                                                                                                                                   | 1.0 mg/kg each |

### Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method : SGS In-House method - GZTC-R&D-TOP-318, Analyzed by Gas Chromatography - Mass Spectrometry (GC-MS), Gas Chromatography - Electro Capture Detector (GC-ECD), High Performance Liquid Chromatography - Diode Array Detector - Mass Spectrometry (HPLC-DAD-MS)

| Test Item(s)                                                                   | CAS NO.               | Limit | Unit  | MDL | 001 |
|--------------------------------------------------------------------------------|-----------------------|-------|-------|-----|-----|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) 1287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND  |

Comment

PASS



SGS-CTC (Guangzhou) Technical Services Co., Ltd.  
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| Test Item(s)                                                                  | CAS NO.               | Limit | Unit  | MDL | 002  |
|-------------------------------------------------------------------------------|-----------------------|-------|-------|-----|------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)I287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND   |
| Comment                                                                       |                       |       |       |     | PASS |

| Test Item(s)                                                                  | CAS NO.               | Limit | Unit  | MDL | 003  |
|-------------------------------------------------------------------------------|-----------------------|-------|-------|-----|------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)I287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND   |
| Comment                                                                       |                       |       |       |     | PASS |

| Test Item(s)                                                                  | CAS NO.               | Limit | Unit  | MDL | 004  |
|-------------------------------------------------------------------------------|-----------------------|-------|-------|-----|------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)I287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND   |
| Comment                                                                       |                       |       |       |     | PASS |

| Test Item(s)                                                                  | CAS NO.               | Limit | Unit  | MDL | 005  |
|-------------------------------------------------------------------------------|-----------------------|-------|-------|-----|------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)I287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND   |
| Comment                                                                       |                       |       |       |     | PASS |

| Test Item(s)                                                                  | CAS NO.               | Limit | Unit  | MDL | 006  |
|-------------------------------------------------------------------------------|-----------------------|-------|-------|-----|------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)I287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND   |
| Comment                                                                       |                       |       |       |     | PASS |

| Test Item(s)                                                                  | CAS NO.               | Limit | Unit  | MDL | 007  |
|-------------------------------------------------------------------------------|-----------------------|-------|-------|-----|------|
| Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)I287-476-5 | 85535-84-8 and others | 1500  | mg/kg | 50  | ND   |
| Comment                                                                       |                       |       |       |     | PASS |



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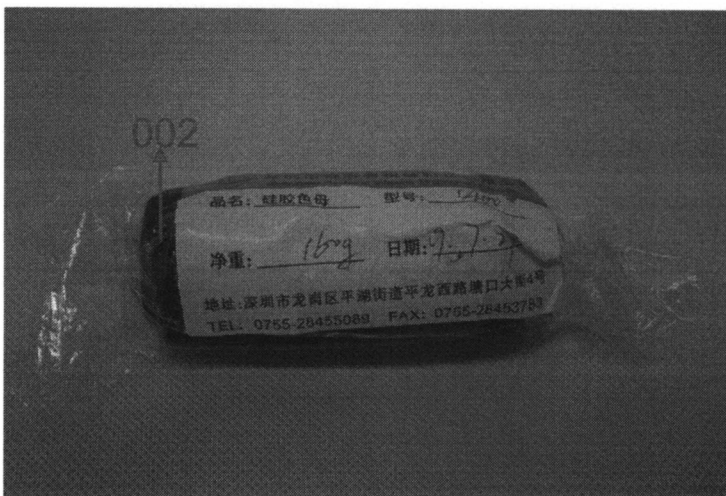
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Sample photo:

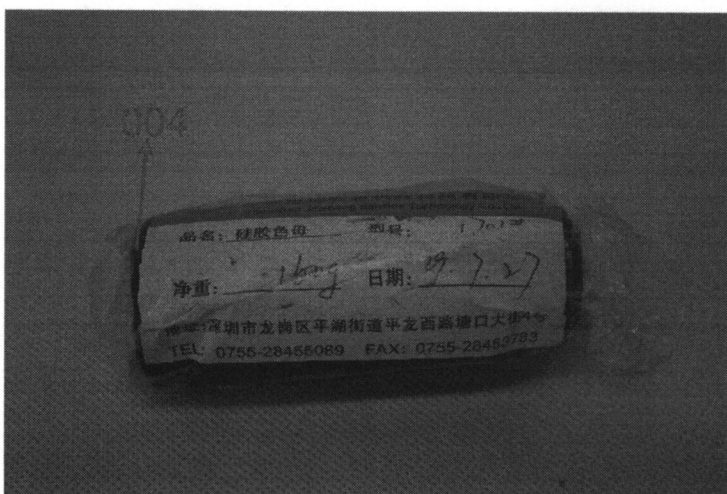
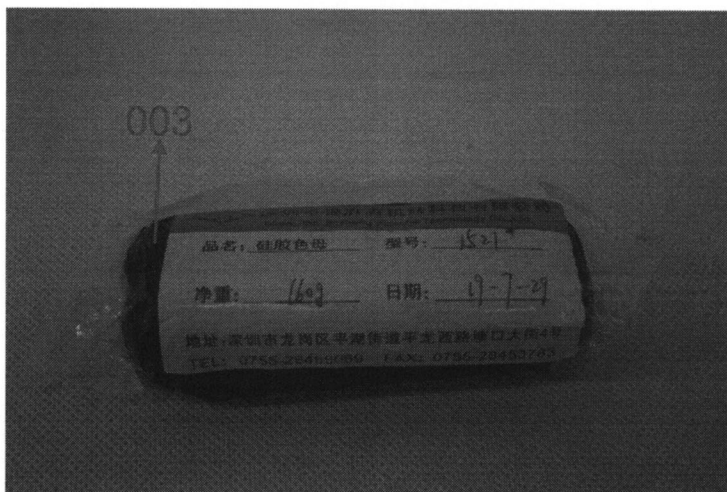


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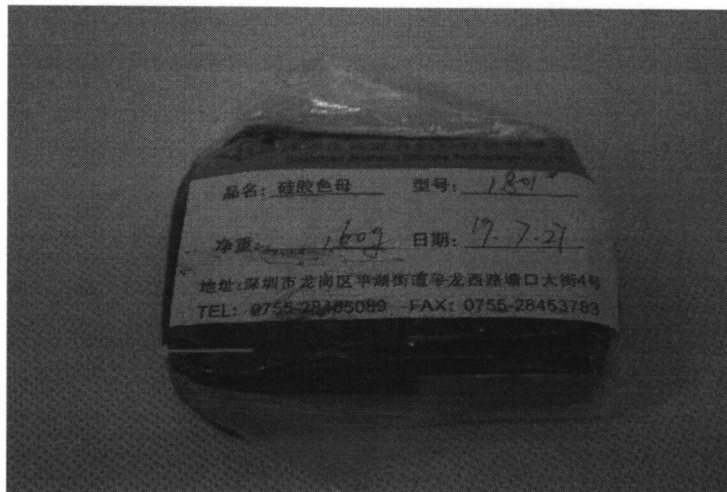
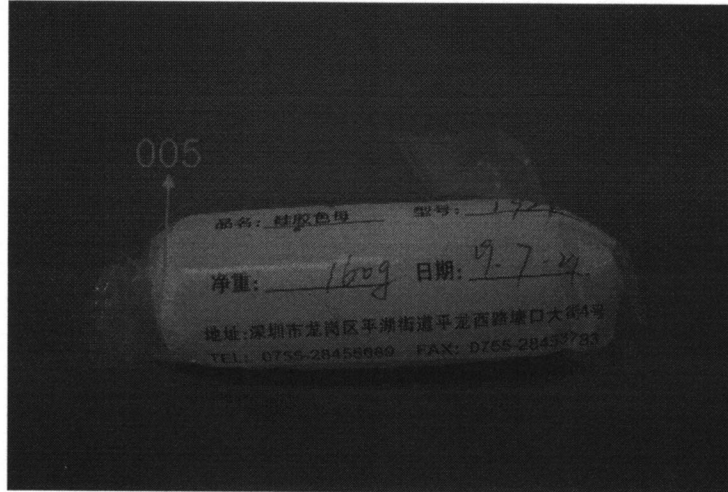


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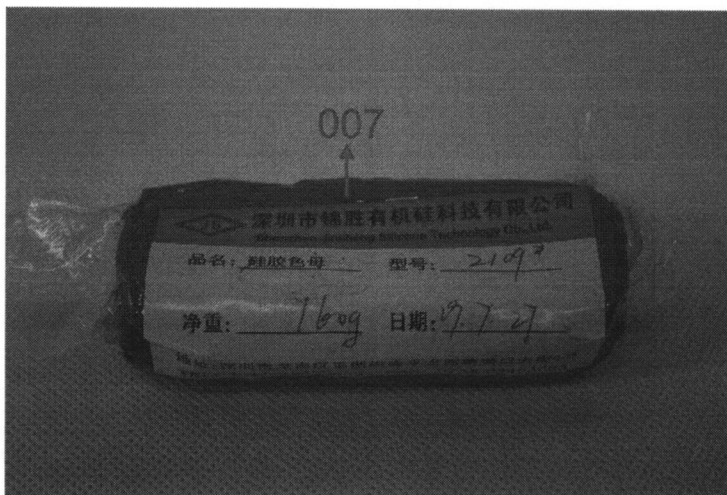


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