



## Test Report

No.: SHHL2205016994CW

Date: JUN. 10, 2022

Page: 1 of 4

SHANGHAILINKANDCO.,LTD

RM804, NO1228, ZHENNANROAD, PUTUODISTRICT, SHANGHAI, CHINA

Sample Description : BUTTERBEERMUGS  
P.O. / Ref No. : 40513+40508  
Manufacturer : LYONSPRESENTATIONS  
Country of Origin : CN  
Country of Destination : USA/UK

\*\*\*\*\*

Sample Receiving Date : MAY 20, 2022  
Testing Period : JUN. 01, 2022 TO JUN. 10, 2022  
Testing Location : 3RD. BUILDING, LANE 3999, XIUPU RD., PUDONG DISTRICT,  
SHANGHAI, CHINA

| Test Requested                                                                                                                           | Result |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|
| MATERIALS AND ARTICLES IN CONTACT WITH FOODSTUFFS – TEST METHODS FOR THERMAL SHOCK AND THERMAL SHOCK ENDURANCE (EN 1183:1997) (METHOD B) | DATA   |

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Sky Zhang  
Authorized Signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center Hangzhou

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
4<sup>th</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn  
中国·上海·徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86-21) 6115 6899 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

# Test Report

No.: SHHL2205016994CW

Date: JUN. 10, 2022

Page: 2 of 4

## Test Conducted:

### 1. Materials and articles in contact with foodstuffs – Test methods for thermal shock and thermal shock endurance (EN 1183:1997)(Method B)

| Number Of Tested Samples: | 10 pieces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |  |                              |  |                          |                          |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--|------------------------------|--|--------------------------|--------------------------|--|--|-------------------------|--|-------------------------|--|------------------------------|--|--------------------------|--------------------------|----|--|----|--|----|--|---|---|----|--|----|--|----|--|---|---|----|--|----|--|----|--|---|-----|----|--|----|--|----|--|---|-----|-----|--|----|--|----|--|---|-----|-----|--|----|--|----|--|---|------|--|-------|--|--|--|--|----|------|--|-----------------|--|--|--|--|------------------------|--|--|----------------------|--|--|--|--|------|--|
| Test Procedure B:         | <div><div>1. Remove any dirt or loose debris from the samples.</div><div>2. Fill the cold water bath with water, measure the temperature of the water <math>t_2</math>.</div><div>3. Place the test sample separately in the oven which has been previously heated to the upper temperature <math>t_1</math>. Maintain the sample at this temperature for about 40min.</div><div>4. Remove the sample and immerse the sample without impact completely in the cold-water bath for about 2min, this procedure should within 15s.</div><div>5. Remove the sample from the cold-water bath. Inspect immediately each sample for chipping, cracking, crazing or breakage and determine the number of samples which have failed the test.</div><div>6. Repeat the testing procedure with the remaining test samples with increasing temperature difference values, <math>t_1-t_2</math>, and the increase temperature <math>t_1</math> by <math>10^{\circ}\text{C}</math> for <math>t_1-t_2 \leq 100^{\circ}\text{C}</math> and by <math>20^{\circ}\text{C}</math> for <math>t_1-t_2 &gt; 100^{\circ}\text{C}</math>.</div></div>                                                                     |                         |  |                              |  |                          |                          |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| Test Result:              | <table><tr><th colspan="8">Thermal shock endurance</th></tr><tr><th><math>t_1, ^{\circ}\text{C}</math></th><th></th><th><math>t_2, ^{\circ}\text{C}</math></th><th></th><th><math>\Delta t, ^{\circ}\text{C}</math></th><th></th><th>No. of failures at <math>t_1</math></th><th>Cumulative failures in %</th></tr><tr><td>60</td><td></td><td>20</td><td></td><td>40</td><td></td><td>0</td><td>0</td></tr><tr><td>70</td><td></td><td>20</td><td></td><td>50</td><td></td><td>0</td><td>0</td></tr><tr><td>80</td><td></td><td>20</td><td></td><td>60</td><td></td><td>1</td><td>10%</td></tr><tr><td>90</td><td></td><td>20</td><td></td><td>70</td><td></td><td>6</td><td>70%</td></tr><tr><td>100</td><td></td><td>20</td><td></td><td>80</td><td></td><td>2</td><td>90%</td></tr><tr><td>110</td><td></td><td>20</td><td></td><td>90</td><td></td><td>1</td><td>100%</td></tr><tr><td></td><td colspan="4">Total</td><td></td><td>10</td><td>100%</td></tr><tr><td></td><td colspan="4"><math>\Delta t_{50}</math></td><td></td><td>= <math>70^{\circ}\text{C}</math></td><td></td></tr><tr><td></td><td colspan="4">Standard deviation s</td><td></td><td>8.23</td><td></td></tr></table> | Thermal shock endurance |  |                              |  |                          |                          |  |  | $t_1, ^{\circ}\text{C}$ |  | $t_2, ^{\circ}\text{C}$ |  | $\Delta t, ^{\circ}\text{C}$ |  | No. of failures at $t_1$ | Cumulative failures in % | 60 |  | 20 |  | 40 |  | 0 | 0 | 70 |  | 20 |  | 50 |  | 0 | 0 | 80 |  | 20 |  | 60 |  | 1 | 10% | 90 |  | 20 |  | 70 |  | 6 | 70% | 100 |  | 20 |  | 80 |  | 2 | 90% | 110 |  | 20 |  | 90 |  | 1 | 100% |  | Total |  |  |  |  | 10 | 100% |  | $\Delta t_{50}$ |  |  |  |  | = $70^{\circ}\text{C}$ |  |  | Standard deviation s |  |  |  |  | 8.23 |  |
| Thermal shock endurance   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |  |                              |  |                          |                          |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| $t_1, ^{\circ}\text{C}$   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $t_2, ^{\circ}\text{C}$ |  | $\Delta t, ^{\circ}\text{C}$ |  | No. of failures at $t_1$ | Cumulative failures in % |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| 60                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                      |  | 40                           |  | 0                        | 0                        |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| 70                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                      |  | 50                           |  | 0                        | 0                        |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| 80                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                      |  | 60                           |  | 1                        | 10%                      |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| 90                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                      |  | 70                           |  | 6                        | 70%                      |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| 100                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                      |  | 80                           |  | 2                        | 90%                      |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
| 110                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                      |  | 90                           |  | 1                        | 100%                     |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
|                           | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |  |                              |  | 10                       | 100%                     |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
|                           | $\Delta t_{50}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |  |                              |  | = $70^{\circ}\text{C}$   |                          |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |
|                           | Standard deviation s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |  |                              |  | 8.23                     |                          |  |  |                         |  |                         |  |                              |  |                          |                          |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |   |    |  |    |  |    |  |   |     |    |  |    |  |    |  |   |     |     |  |    |  |    |  |   |     |     |  |    |  |    |  |   |      |  |       |  |  |  |  |    |      |  |                 |  |  |  |  |                        |  |  |                      |  |  |  |  |      |  |

## Remarks :

1.  $t_1$ , means upper temperature is heated by oven.
2.  $t_2$  means specified lower temperature in cold water bath.
3.  $\Delta t$  = temperature difference  $t_1 - t_2$  in degrees Celsius.
4.  $\Delta t_{50}$  means Value for the resistance against sudden change in temperature corresponding to the temperature difference at which, for the first time, 50% of the sample fail.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

4<sup>th</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn  
 中国·上海·徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86-21) 6115 6899 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



## Test Report

No.: SHHL2205016994CW

Date: JUN. 10, 2022

Page: 3 of 4

### Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
4<sup>th</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn  
中国·上海·徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86-21) 6115 6899 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Test Report

No.: SHHL2205016994CW

Date: JUN. 10, 2022

Page: 4 of 4

### Sample Photo:

Test sample



SGS authenticate the photo on original report only

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



SGS-CSTC (Shanghai) Technical Services Co., Ltd.  
Testing Center Harbin

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
4<sup>th</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86) 400 960 9661 f (86-21) 6115 6899 www.sgsgroup.com.cn  
中国·上海·徐汇区宜山路889号4号楼 邮编: 200233 t (86) 400 960 9661 f (86-21) 6115 6899 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)