

## Test Report

GZF20-010167-01

Date: 03 Jul 2020

Client Name: PARTNER TELE.COM SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA  
Client Address: ul. SOLTYSOWSKA 22, 31-589 KRAKOW

Sample Name: Antibacterial mobile phone shell  
Manufacturer: /  
Sample Batch No.: /  
Production Date: /  
Sample other information: Country of Destination: Poland

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Reference No. : /  
Date of Sample Received : 03 Jun 2020  
Testing Period : 03 Jun 2020 - 03 Jul 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).

Unless otherwise stated the results shown in this test report refer only to the items tested, and for clients internal use only, not to the society has the proof function. This document cannot be used for publicity, without prior written approval of the SGS.



SGS Authorized Signature

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**Sample Description :**

| Specimen No. | SGS Sample ID    | Description  |
|--------------|------------------|--------------|
| 1            | GZF20-010167.001 | Block sample |

**Test Result(s) :**

Test Requested : Test of antimicrobial activity

Test Method : Refer to ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

**GZF20-010167.001**

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Test organism                       | Klebsiella pneumoniae ATCC 4352 |
| Concentration of bacteria (CFU/mL)  | 1.6x10 <sup>6</sup>             |
| Volume of test inoculum(mL)         | 0.2                             |
| U <sub>0</sub>                      | 4.31                            |
| U <sub>t</sub>                      | 5.39                            |
| A <sub>t</sub>                      | -0.20                           |
| R                                   | 5.6                             |
| *The antibacterial activity rate(%) | >99.9                           |

**Notes :**

- 1.The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 2.U<sub>0</sub>: the average of the common logarithm of the number of viable bacteria(CFU/cm<sup>2</sup>) recovered from the untreated test specimens immediately after inoculation.
- 3.U<sub>t</sub>: the average of the common logarithm of the number of viable bacteria(CFU/cm<sup>2</sup>) recovered from the untreated test specimens after 24h.
- 4.A<sub>t</sub>: the average of the common logarithm of the number of viable bacteria(CFU/cm<sup>2</sup>) recovered from the treated test specimens after 24h.
- 5.R: the value of antimicrobial activity, R=U<sub>t</sub>-A<sub>t</sub>.
- 6.\* The calculation formula of the antibacterial activity rate is provided by the client, the calculation formula is **【(B-C)/B】 \*100%**;  
B: arithmetic average of the numbers of bacteria obtained from control samples after 24h incubation(CFU/cm<sup>2</sup>);

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C: arithmetic average of the numbers of bacteria obtained from samples after 24h incubation(CFU/cm<sup>2</sup>).  
7.Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

Sample photo:



SGS authenticate the photo on original report only

\*\*\* End \*\*\*



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