

## Test Report

No.: TJHL2403002492CW

Date: APR.03, 2024

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PHOTO USA ELECTRONIC GRAPHIC INC.

8 DONGDAQIAO ROAD, STE.2716, THE SPACES INT'L CENTER

The following sample(s) was/were submitted and identified by the client as:

Sample Description : 11 OZ. WHITE MUG WITH ORCA COATING  
 Style/Item No. : 15 OZ. WHITE MUG WITH ORCA COATING  
 Supplier : PHOTO USA  
 Manufacture : PHOTO USA  
 Country of Origin : CHINA

\*\*\*\*\*

Sample Receiving Date : MAR.29, 2024  
 Testing Period : MAR.29, 2024 TO APR.03 2024  
 Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
 Test Requested : PLEASE REFER TO THE RESULT SUMMARY.  
 Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)  
 Test Summary :

Test Requested	Conclusion
MICROWAVE SAFETY TEST (SGS IN HOUSE METHOD)	PASS

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

*Michael*



check.sgsnline.com.cn

Michael Wen  
 Authorized Signatory



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## Test Conducted:

### Microwave Oven Test (SGS In House Method)

Test conduct	Microwave Oven Test
Number of test sample	5
Number of control sample	1
Type of sample	others

#### Test method

1. Apply the staining solution to all interior and exterior surfaces of the sample and inspect closely for damage, do not continue the test with this sample, if anything other than superficial imperfections is found. (When applicable).
2. Except products made from glass or glass-ceramic or thermoplastic, water soak the sample for at least 15 minutes and then wipe the surface dry with a cotton cloth prior to test. (When applicable).
3. Fill the product with the specified amount of testing medium. (If not stated, the following condition is applied (If applicable, if the provided lids claimed for Microwave Safe, it shall fit securely before testing accordingly):
4. **For mugs, cups, bowls, pitchers, and teapots:** Fill samples two-thirds (2/3) full with 20±5°C (68±9°F) cold water and place into the microwave oven. Shut the microwave oven door.
5. **For dessert plates and saucers:** Place one-half (1/2) cup of cold cooked macaroni mixed with one tablespoon cooking oil on the dessert plate or saucer and place into the microwave oven. Shut the microwave oven door.
6. **For dinner plates and serving platters:** Place one (1) cup of cold cooked macaroni mixed with one tablespoon cooking oil on the dinner plate or serving platter and place into the microwave oven. Shut the microwave oven door.
7. **For others:** Fill samples four-fifth (4/5) full with 20±5°C (68±9°F) cold water with sufficient crumb foam placed on container as intended. Shut the microwave oven door.
8. Set the microwave to 1000 watt output and run for 3 minutes.
9. Record any cracking, chipping, crazing, breakage, discoloration, deformation, or warping of product.
10. After 3 minutes remove product from microwave and immediately measure and record surface temperature with IR thermometer or thermocouple.
  - A. Measure temperature of mugs on top portion of handle.
  - B. Measure plate or bowl temperatures near top rim of plate or bowl (at a normal hand contact point).



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C. All samples must have the surface temperatures measured and recorded within 1 minute after the oven has stopped heating. Only one sample should be removed from the oven at a time.

D. Only measure the surface temperature of the items after the first 3-minute cycle.

11. Let samples sit at room temperature for 5 minutes.

12. If necessary, add cold water to cups, mugs, bowls and pitchers to ensure that they are two-thirds (2/3) full of water.

13. Replace hot macaroni on plates, saucers, and serving platters with cold macaroni.

14. Run for five (5) cycles. Compare test samples to the untested standard and record any cracking, chipping, crazing, breakage, discoloration, deformation, or warping of product after five (5) complete microwave cycles.

### Requirement

The product fails the microwave test if:

1. If the surface temperature of Graspable area greater than: Ceramic, glass-ceramic or glass: 56°C; Plastic, wooden: 60°C after the first 3 minutes (1<sup>st</sup> cycle).
2. When compared to the standard, any of the tested samples show signs of cracking, chipping, crazing, breakage, discoloration, deformation, or warping during or after 5 complete microwave cycles.

### Test results:

Sample No.	Surface temperature (°C)	1 <sup>st</sup> cycle	2 <sup>nd</sup> cycle	3 <sup>rd</sup> cycle	4 <sup>th</sup> cycle	5 <sup>th</sup> cycle
1#	49.3	P	P	P	P	P
2#	49.4	P	P	P	P	P
3#	48.8	P	P	P	P	P
4#	48.1	P	P	P	P	P
5#	48.2	P	P	P	P	P

**Note:** P = no cracking, chipping, crazing, breaking, discoloration, deformation or warping was found on the tested sample.

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### Sample Photo:



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



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