

Test Report

No.: TJHL1906003066CW

Date: JUL.16, 2019

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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 : 11OZ TWO TONE MUG-INNER&HANDLE COLOR RED
 Supplier : PHOTO USA
 Manufacture : PHOTO USA
 Country of Origin : CHINA
 Sample Receiving Date : JUN.26, 2019
 Testing Period : JUN.26, 2019 TO JUL.16, 2019
 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
EN 12875-4:2006 - MECHANICAL DISHWASHING RESISTANCE OF UTENSILS - RAPID TEST FOR DOMESTIC CERAMIC ARTICLES	PASS

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

Michael



TJHL1906003066CW

Michael Wen
 Authorized Signatory



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EN 12875-4: 2006 Mechanical dishwashing resistance of utensils - Rapid test for domestic ceramic articles

- 1) Scope: The European Standard specifies a rapid method for testing the dishwashing resistance of ceramic articles intended for domestic use. It does not define the number of dishwashing cycles that any given product should withstand.
- 2) Product Category: Ceramic tableware
- 3) Number of tested sample: 4 pieces
- 4) Number of Controlled Sample: 1 piece
- 5) Procedure

Clause	Test item	Test method/Requirement
7.1	Preparation of test specimens	Preparation of test specimens
7.1.1		Remove any surface contamination from the test specimens.
7.1.2		Place the test specimens in the inspection site and examine them with normal corrected vision from a distance of (30±10) cm, while the viewing angle is changed. All test specimens of a given type shall be of comparable quality in gloss and colour; discard any specimens that are of inferior quality. Retain one specimen as an untested reference standard.
7.2	Immersion of test specimens	Immersion of test specimens
7.2.1		Fill the tank with sufficient water to completely cover the specimens. Ensure that the total ware surface area to test solution volume does not exceed 130 cm ² /l.
7.2.2		Cover the tank and adjust the water bath temperature to give a test tank temperature of (75±1) °C, record the tank temperature.
7.2.3		Add sufficient specified detergent to make sure the concentration of detergent is 0.5% (m/m) of solution in the test tank. Stir well to disperse the detergent. Immediately lower the test specimens, in the racks, into the tank and cover with the lid.
7.2.4		After 16 h±10 min, record the temperature in the tank and remove the test specimens. Rinse the test specimens in hot water, rub dry with a clean cloth (the rubbing action will also remove any loose colour).
7.2.5		Examine the specimens as described in 7.1.2, comparing tested items with the corresponding the untested reference standards and report any changes in gloss or colour using the method described in EN 12875-2.
7.2.6		Repeat the immersion procedure for a further 16 h±10 min using fresh detergent solution. Remove the test specimens, rinse and dry them.
7.2.7		Re-examine the specimens after a total of 32 hours immersion. Report any changes in gloss or colour.



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6) Test result:

After 16 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0

After 32 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0



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Note:

Table 1 – Inspection criteria

	Colour(1)	gloss	Clouding	Resistant deposits and iridescent layers(2)	Other aspects
Ceramic tableware	+	+		+	+(3)(4)(5)
(+) = to be inspected (1) If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen. (2) For the elimination of easily removable deposits. (3) e.g. crazing. (4) The adherence of decorations shall be tested by repeated wiping with a moist cloth under slight pressure. (5) Abrasion which is caused by friction during the dishwasher treatment shall be disregarded.					

Table 2 – Evaluation of inspection criteria

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Remark:

1. The logo on bottom of mug didn't participate in test evaluation, as per client's requirement. And it disappeared after 16 h.



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Sample Photo:



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End of Report



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