TEST REPORT

Reference No.	:	WTF21F01004524C
Applicant	:	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	:	109623
Sample Name	:	Mug and spoon with Santa decor
Model No.	:	CX1304
Test Requested	:	1) Client's requirements - BS EN 15284:2007 Materials and article in contact with food stuffs for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastic cookware; 2) Client's requirements - Rapid test for domestic ceramic articles.
Test Method	:	Please refer to next page (s)
Test Conclusion	:	Please refer to next page (s)
Date of Receipt sample	:	2021-01-15
Date of Test	:	2021-01-15 to 2021-01-20
Date of Issue	:	2021-01-20
Test Result	:	Please refer to next page (s)
Note	:	As specified by client, only test the designated sample.

Remarks:
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Test Result:

1) Microwave Safe (BS EN 15284:2007)

Test Standard	:	BS EN 15284:2007 Test Method for the Resistance to Microwave Heating of Ceramic, Glass, Glass-Ceramic of Plastic Cookware
No. of Specimen	:	3 pieces for testing,
		Remain as control samples.
Test Requirement	:	1. Ceramic items shall display no signs of cracking, crazing, scaling or colour.
		2. Glass, Glass ceramic items shall display no signs of cracking, scaling or colour.
		3. Plastic items shall display no signs of cracking, colour, melting, deformation, suitability for re-use of charring.
		4. The maximum surface temperature of handles (if applicable) after the short period heating shall not exceed: a. Ceramic, Glass, Glass-ceramic = 56℃ b. Plastic = 60℃
Conclusion(s)	:	**PASS**, Details as following
1. No visible damage was found on all tested samples after testing. 2. No arcing was observed on all tested samples during testing. 3. Surface temperature at the handle of the tested samples did not exceed the maximum as specified by the Standard (see test data).		

Test Data:

Sample 1

Test Period	Location	Highest Temperature (℃)			Requirement
		Sample 1-1	Sample 1-2	Sample 1-3	
After the Short Period heating	Handle	25.6	27.3	30.4	Ceramic, Glass, Glass-ceramic ≤ 56℃ Plastic ≤ 60℃
	Surface of body	26.4	27.7	33.3	No requirement
After the Long Period heating	Handle	72.4	76.8	82.0	
	Surface of body	90.5	94.2	101.8	

Sample 2

Test Period	Location	Highest Temperature (℃)			Requirement
		Sample 2-1	Sample 2-2	Sample 2-3	
After the Short Period heating	Handle	35.0	37.5	33.2	Ceramic, Glass, Glass-ceramic ≤ 56℃ Plastic ≤ 60℃
	Surface of body	35.3	41.0	37.0	No requirement
After the Long Period heating	Handle	67.7	78.3	73.2	
	Surface of body	70.0	84.1	77.4	

2) Dishwasher safe test (BS EN 12875-4:2006)

Test Standard:	BS EN 12875-4:2006 Mechanical dishwashing resistance of utensils - Part 4: Rapid test for domestic ceramic articles
Number of tested sample:	3 pcs (Sample 1 & 2) for testing, 1 pc as control sample.
Procedure:	1. Preparation of test specimens 1.1 Remove any surface contamination from the test specimens, e.g. by washing the specimens by hand in a mild liquid detergent at about 45 °C, followed by rinsing and drying with a clean cloth. 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. 2. Immersion of test specimens 2.1 Determine the surface area of the test specimens. Fill the tank with sufficient water to completely cover the specimens. Check for compliance with the surface area to volume criterion; if the calculated surface area approaches the critical limit of 130 cm^2/l, a greater volume shall be used. 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. 2.3 Add sufficient detergent to give a 0.5% 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. 2.4 After 16h ± 10 min, record the temperature in the tank and remove the test specimens. Rinse the test specimens in hot water and rub dry with a clean cloth (the rubbing action will also remove any loose colour). 2.5 Examine the specimens, comparing tested items with the corresponding untested reference standards and report any changes in gloss or colour using the method described in EN 12875-2. 2.6 Repeat the immersion procedure for a further 16h ± 10 min using fresh detergent solution. Remove the test specimens, rinse and dry them as described in 2.4. 2.7 Re-examine the specimens as described in 2.5 after a total of 32 hours

Test Result:

Sample 1

Test specimen	After 16 hours immersion			After 32 hours immersion		
	Gloss	Colour	Other aspects	Gloss	Colour	Other aspects
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
Average	0	0	0	0	0	0

Sample 2

Test specimen	After 16 hours immersion			After 32 hours immersion		
	Gloss	Colour	Other aspects	Gloss	Colour	Other aspects
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
Average	0	0	0	0	0	0

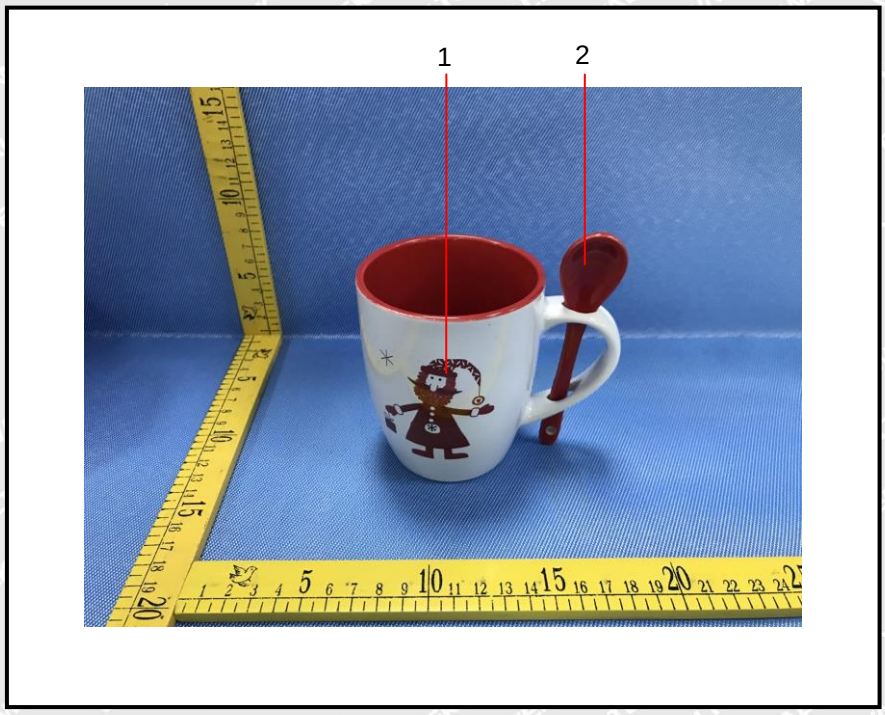
Note:

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

Test Specimen Description:
No.1: Cup (Individual)
No.2: Spoon (Individual)

Sample photo:

Photographs of parts tested:



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