

# Test Report

No.: EY210108027CE004

Date: Jan. 14, 2021

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**Applicant** : MID OCEAN BRANDS B.V.  
**Address** : 7/F., KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG  
**Sample Name** : Glass tumbler  
**Model** : MO9992  
**Received Date** : Jan. 08, 2021  
**Test Period** : Jan. 08, 2021 ~ Jan. 14, 2021  
**Test Requested** : 1. As requested by client, according to PAS 54:2003, to perform the Dishwasher safe test for the submitted sample.  
 2. As requested by client, according to the BS EN 15284:2007, to perform the Microwave safe test for the submitted sample.  
**Test Results** : Please refer to next page (s).

**Executive Summary:**

STANDARD	CONCLUSION
1. Dishwasher safe test(compiled with the specification of dishwasher safe test according to PAS 54:2003)	PASS
2. Microwave safe test (BS EN 15284:2007)	PASS

Signed for and on behalf of  
EMTEK(Guangzhou) Co., Ltd.

Prepared by: Summer  
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Approved by: Howar  
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Authorized signatory  
Jan. 14, 2021

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## Test Sample List:

Sample No.	Sample Name
4	Glass tumbler



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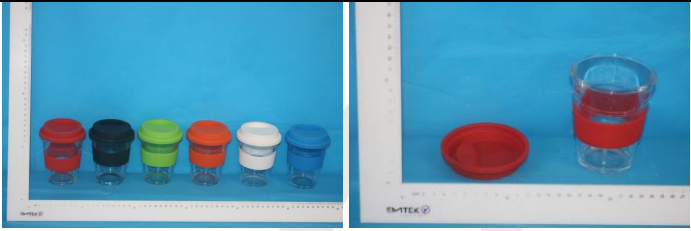
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## Test Results:

### 1. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)

Test Method: With reference to EN 12875-1:2005.

Picture 1: Sample as received	Remarks		
 <p>(Left: Control; Right: Tested)</p> <p>Note: Picture is for reference only. Actual colours of the picture may vary due to lighting and output process.</p>	After 5 cycles	Color <sup>1)</sup>	0
		Gloss	0
		Clouding	0
		Resistant deposits and iridescent layers <sup>2)</sup>	0
		Other aspects	0

<sup>1)</sup> = If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.

<sup>2)</sup> = For the elimination of easily removable deposits.

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.

Evaluation of inspection criteria quoted from EN 12875-1:2005.

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

Requirements quoted from Publicly Available Specification PAS 54: 2003

Articles that are designated “dishwasher resistant”, “dishwasher proof”, “dishwasher safe” or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2).



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## Test Results:

### 2. Microwave safe test (EN 15284:2007)

Test Method: With reference to EN 15284:2007.

Sample No.: 4 Glass tumbler												
Sample ID	Arcing	Max surface Temperature of edge after short period heating(°C)	Visual damage checking required for ceramic sample								Rating	
			Short period of heating				Long period of heating					
			Cracking	Crazing	Scaling	Color	Cracking	Crazing	Scaling	Color		
4A	0	33	0	0	0	0	0	0	0	0	0	Pass
4B	0	33	0	0	0	0	0	0	0	0	0	Pass
4C	0	33	0	0	0	0	0	0	0	0	0	Pass

Note: 0 - No visible change

### Requirement:

	The maximum surface temperature after short period heating shall not exceed the following limit value:
Ceramic, glass-ceramic or glass	56°C
Plastics:	60°C

Observation Parameter(s)	Visual damage checking required for the sample
Cracking	No visible change
Crazing <sup>a</sup>	No visible change
Scaling <sup>b</sup>	No visible change
Color <sup>c</sup>	No visible change

<sup>a</sup> = refers to the glaze

<sup>b</sup> = refers to on-glaze decoration

<sup>c</sup> = if several colors are present on one article to be inspected, the color with the greatest change shall be chosen.



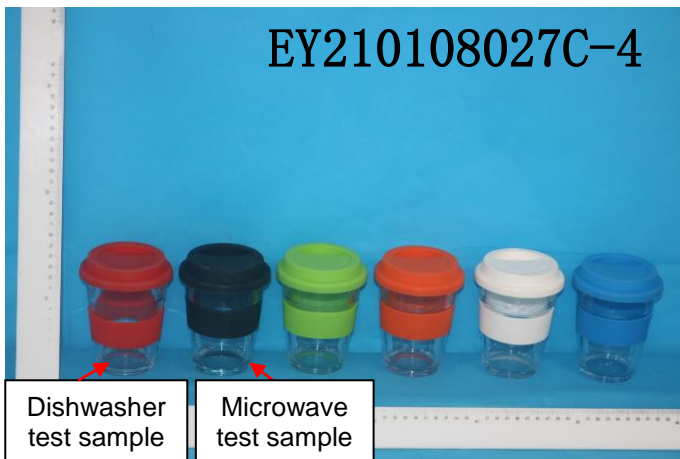
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## Sample Photos:



Microwave after testing

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

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