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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 : High borosilicate bottle

Model : MO6169

Received Date : Dec. 28, 2020

**Test Period** : Dec. 28, 2020 ~ Dec. 31, 2020

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

 Dishwasher safe test(complied 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. To.

Prepared by:

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Assistant engineer

Reviewed by:

Yu Chunhua, Jav

Technical supervisor

Approved by:

Hu Zhenlong, Howar Authorized signatory

Dec. 31, 2020





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### **Test Sample List:**

Sample No.	Sample Name
1	High borosilicate bottle







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

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 safety 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).



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



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### **Test Results:**

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

Test Method: With reference to EN 15284:2007.

Sample No.: 1 High borosilicate bottle											
		Max surface Temperature	Visual damage checking required for ceramic sample								
Sample ID	Arcing	of bottle body after	Short period of heating				Long period of heating				Rating
	short period heating(°C)	Cracking	Crazing	Scaling	Color	Cracking	Crazing	Scaling	Color		
1A	0	35	0	0	0	0	0	0	0	0	Pass
1B	0	35	0	0	0	0	0	0	0	0	Pass
1C	0	35	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℃
Plastics:	60℃

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

a = refers to the glaze



b = refers to on-glaze decoration

<sup>&</sup>lt;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:**







After testing

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





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