



TEST REPORT

Report No.: STSGZ2205303078E

Date: 14-Jun-2022

Page 1 of 6

Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

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

Sample Name: Solar mason jar outdoor lamp

Model: MO6678

Receiving Date: 30-May-2022

Test Period: From 30-May-2022 to 6-Jun-2022

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	IP44 test	IEC 60529 Edition 2.2	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Guangzhou Depuhua Test Services Co. Ltd.

A301, 3/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong e-mail: stsgz@stsapp.com
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Page 2 of 6

1. Test item: IP44 test

1.1 Description of the sample and its source:

The samples used in the test shall be provided by the entrusting party.

1.2 Testing equipment:

Equipment name	Model	Calibration expiration date
Oscillating tube rain testing machine	KXT1351	2022-07-20

1.3 Laboratory temperature and humidity:

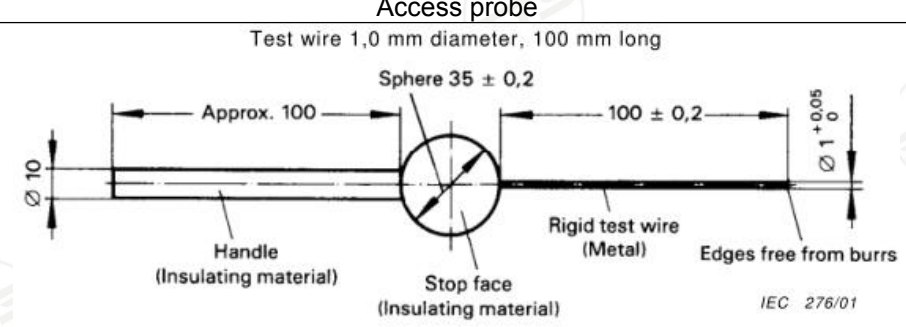
Temperature: 23.8°C; Relative humidity: 54%RH

1.4 Testing standard:

IEC 60529 Edition 2.2

1.5 Test conditions:

1.5.1 IP4X test conditions:

Access probe	Test force
 <p>Test wire 1,0 mm diameter, 100 mm long</p> <p>Sphere 35 ± 0,2</p> <p>Approx. 100</p> <p>100 ± 0,2</p> <p>∅ 10</p> <p>∅ 1 ± 0,05</p> <p>Handle (Insulating material)</p> <p>Stop face (Insulating material)</p> <p>Rigid test wire (Metal)</p> <p>Edges free from burrs</p> <p>IEC 276/01</p>	1 N ± 10%

1.5.2 IPX4 test conditions:

Spray angle from vertical: $\pm 180^\circ$
 Number of open holes: 37
 Total water flow: 2.6 l/min
 Duration of the test: 10 mins (600 s)

1.6 Judgment basis for results:

IP4X: The access probe shall not touch hazardous live parts;
 The access probe shall not touch hazardous mechanical parts;
 IPX4: After testing, the enclosure shall be inspected for ingress of water.



TEST REPORT

Report No.: STSGZ2205303078E

Date: 14-Jun-2022

Page 3 of 6

1.7 Test results:

Sample No.	Test item	Test results	Verdict
S001	IP4X-access to hazardous parts	The access probe can't touch hazardous live parts	Pass
	IP4X-solid foreign objects	The access probe can't touch hazardous mechanical parts	Pass
	IPX4	After the test, a small amount of water entered the enclosure, but the water does not affect the normal operation of the sample	Pass

1.8 Inspection photos:



Product photo



Before the test

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TEST REPORT

Report No.: STSGZ2205303078E

Date: 14-Jun-2022

Page 4 of 6



Sample during test IP4X



Sample during test IPX4



Sample after test



Sample after test

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TEST REPORT

Report No.: STSGZ2205303078E

Date: 14-Jun-2022

Page 5 of 6



Sample after test

Product Photo

<<<<<< END OF REPORT >>>>>>

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Report No.: STSGZ2205303078E

Date: 14-Jun-2022

Page 6 of 6

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