

Test report

T-24288671-11-R1



Verify Report

Overall result

Pass

Please refer to the following pages for test result summary and notes.

Client information

Client: Mid Ocean Brands B.V.
Address: 7/F, Kings Tower, 111 King Lam Street,
Cheung Sha Wan, Kowloon, Hong Kong



Sample information

Description:	Bike mobile phone mount case in PVC
SKU/style #:	MO2430
Country of origin:	-
Country of distribution:	Europe
Quantity submitted:	5 sets
Labeled age grade:	-
Tested age grade:	-
Materials:	ABS+PVC

General information

Sample receipt date: 05-Nov-2024
Testing period: 07-Nov-2024 to 18-Nov-2024

Report date: 21-Nov-2024

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Jeremy Xu
Chemical Laboratory Manager

QIMA (Hangzhou) Testing Co., Ltd.

Ada Guo

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Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)	Pass
EN 60529:1991+A1:2000+A2:2013 Degrees of protection provided by enclosures (IP Code) ^φ	Pass

Note:

Test marked with ' ^φ ' indicate tests performed in external laboratories.



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Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+6+7	5+11	8+9+10	12	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	70	20	64	ND	500
Conclusion	Pass	Pass	Pass	Pass	Pass	

Specimen No.	13	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	500
Conclusion	Pass	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-23 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	4+6+7	5+11	8+9+10	12	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	ND	100
Conclusion	Pass	Pass	Pass	Pass	Pass	

Specimen No.	13	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	100
Conclusion	Pass	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2+3	4+6+7	5+11	Limit (% w/w)
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.1
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.1
Di-(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	0.0201	0.0329	ND	0.1
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	ND	0.1
Sum of DBP, BBP, DEHP, DIBP		0.0201	0.0329	ND	0.1
Di-n-Octyl Phthalate (DnOP)	117-84-0	ND	ND	ND	
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	
Sum of DnOP, DINP, DIDP		ND	ND	ND	0.1
Conclusion		Pass	Pass	Pass	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		8+9+10	---	---	Limit (% w/w)
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Dibutyl Phthalate (DBP)	84-74-2	ND	---	---	0.1
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	---	---	0.1
Di-(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	0.0239	---	---	0.1
Diisobutyl Phthalate (DIBP)	84-69-5	ND	---	---	0.1
Sum of DBP, BBP, DEHP, DIBP		0.0239	---	---	0.1
Di-n-Octyl Phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	
Sum of DnOP, DINP, DIDP		ND	---	---	0.1
Conclusion		Pass	---	---	

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2+3	4+6+7	5+11	8+9+10	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo [a] pyrene (BaP)	50-32-8	ND	ND	ND	ND	1
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	ND	ND	1
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	ND	ND	1
Chrysene (CHR)	218-01-9	ND	ND	ND	ND	1
Benzo [b] fluoranthene (BbFA)	205-99-2	ND	ND	ND	ND	1
Benzo [j] fluoranthene (BjFA)	205-82-3	ND	ND	ND	ND	1
Benzo [k] fluoranthene (BkFA)	207-08-9	ND	ND	ND	ND	1
Dibenzo [a,h] anthracene (DBA _h A)	53-70-3	ND	ND	ND	ND	1
Conclusion		Pass	Pass	Pass	Pass	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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Detailed results

EN 60529:1991+A1:2000+A2:2013 Degrees of protection provided by enclosures (IP Code) [†]

EN 60529			
Clause	Requirement + Test	Result - Remark	Verdict
EN 60529:1991+A1:2000+A2:2013			
13	Tests for protection against access to hazardous parts indicated by the first characteristic numeral		NA
13.2	Test conditions for first characteristic numerals 1, 2, 3, 4		NA
	- classification according to IP.....:		—
	Test means and main test conditions are given in table 7.		NA
	- test force		NA
	The object probe is pushed against any openings of the enclosure with the force specified in table 7.		NA
13.3	The protection is satisfactory if the full diameter of the probe specified in table 7 does not pass through any opening.		NA
13.4	Dust test for first characteristic numerals 5 and 6		NA
	Enclosures are of necessity in one of two categories:		NA
	Category 1: Enclosures where the normal working cycle of the equipment causes reductions in air pressure within the enclosure below that of the surrounding air, for example, due to thermal cycling effects.		NA
	Category 2: Enclosures where no pressure difference relative to the surrounding air is present.		NA
	If it is impracticable to test the complete enclosure in the test chamber, one of the following procedures shall be applied:		NA
	– testing of individually enclosed sections of the enclosure;		NA
	– testing of representative parts of the enclosure, comprising components such as doors, ventilation openings, joints, shaft seals, etc., in position during test;		NA
	– testing of a smaller enclosure having the same full-scale design details.		NA
	In the last two cases, the volume of air to be drawn through the enclosure under test shall be the same as for the whole enclosure in full scale.		NA
13.5	Special conditions for first characteristic numeral 5		NA
13.5.1	Test conditions for first characteristic numeral 5		NA
	The enclosure shall be deemed category 1 unless the relevant product standard for the equipment specifies that the enclosure is category 2.		NA
13.5.2	Acceptance conditions for first characteristic numeral 5		NA
	The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment		NA



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EN 60529			
Clause	Requirement + Test	Result - Remark	Verdict
	or impair safety		NA
	Except for special cases to be clearly specified in the relevant product standard, no dust shall deposit where it could lead to tracking along the creepage distances.		NA
13.6	Special conditions for first characteristic numeral 6		NA
13.6.1	Test conditions for first characteristic numeral 6		NA
	The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not.		NA
13.6.2	Acceptance conditions for first characteristic numeral 6		NA
	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.		NA
14	Tests for protection against water indicated by the second characteristic numeral		P
14	Test conditions		P
	The tests are conducted with fresh water.		P
	During the tests for IPX1 to IPX6 the water temperature should not differ by more than 5 K from the temperature of the specimen under test. If the water temperature is more than 5 K below the temperature of the specimen a pressure balance shall be provided for the enclosure. For IPX7 and IPX9 details of the water temperature are given in 14.2.7 and 14.2.9 respectively	IPX6	P
	During the test, the moisture contained inside the enclosure may partly condense. The dew which may thus deposit shall not be mistaken for an ingress of water		P
	For the purpose of the tests, the surface area of the enclosure is calculated with a tolerance of 10 %.		P
	Adequate safety precautions should be taken when testing the equipment in the energized condition.		NA
14.2.1	Test for second characteristic numeral 1 with the drip box		NA
	The test is made with a device which produces a uniform flow of water drops over the whole area of the enclosure		NA
	The enclosure under test is placed in its normal operating position under the drip box, the base of which is larger than that of the enclosure. Except for enclosures designed for wall or ceiling mounting, the support for the enclosure under test should be smaller than the base of the enclosure		NA
	An enclosure normally fixed to a wall or ceiling is fixed in its normal position of use to a wooden board having dimensions which are equal to those of that surface of the enclosure which is in contact with the wall or ceiling when the enclosure is mounted as in normal use.		NA
	The duration of test is 10 min.		NA
14.2.2	Test for second characteristic numeral 2 with the drip box		NA



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EN 60529			
Clause	Requirement + Test	Result - Remark	Verdict
	The table on which the enclosure is placed does not turn as in the case of the test for the second characteristic numeral 1.		NA
	The enclosure is tested for 2,5 min in each of four fixed positions of tilt.		NA
	These positions are 15° on either side of the vertical in two mutually perpendicular planes		NA
	The total duration of the test is 10 min.		NA
14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle		NA
	a) Conditions when using the test device as in figure 4 (oscillating tube):		NA
	b) Conditions when using the test device as in figure 5 (spray nozzle):		NA
	The test duration is 1 min/m ² of the calculated surface area of the enclosure (excluding any mounting surface), with a minimum duration of 5 min.		NA
14.2.4	Test for second characteristic numeral 4 with oscillating tube or spray nozzle.		NA
	a) Conditions when using the test device as in figure 4 (oscillating tube):		NA
	b) Conditions when using the test device as in figure 5 (spray nozzle):		NA
	The test duration is 1 min/m ² of the calculated surface area of the enclosure (excluding any mounting surface), with a minimum duration of 5 min.		NA
14.2.5	Test for second characteristic numeral 5 with the 6,3 mm nozzle		NA
	The conditions to be observed are as follows:		NA
	– internal diameter of the nozzle: 6,3 mm		NA
	– delivery rate: 12,5 l/min ± 5 %;		NA
	– core of the substantial stream: circle of approximately 40 mm diameter at 2,5 m distance from nozzle;		NA
	– test duration per square metre of enclosure surface area likely to be sprayed: 1 min;		NA
	– minimum test duration: 3 min;		NA
	– distance from nozzle to enclosure surface: between 2,5 m and 3 m.		NA
14.2.6	Test for second characteristic numeral 6 with the 12,5 mm nozzle		P
	The conditions to be observed are as follows:		P
	– internal diameter of the nozzle: 12,5 mm;		P
	– delivery rate: 100 l/min ± 5 %;		P



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EN 60529			
Clause	Requirement + Test	Result - Remark	Verdict
	– water pressure: to be adjusted to achieve the specified delivery rate;		P
	– core of the substantial stream: circle of approximately 120 mm diameter at 2,5 m distance from nozzle;		P
	– test duration per square metre of enclosure surface area likely to be sprayed: 1 min;		P
	– minimum test duration: 3 min;		P
	– distance from nozzle to enclosure surface: between 2,5 m and 3 m.		P
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0,15 m and 1 m		NA
	The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied:		NA
	a) the lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water;		NA
	b) the highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water;		NA
	c) the duration of the test is 30 min;		NA
	d) the water temperature does not differ from that of the equipment by more than 5 K. However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion.		NA
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		NA
	Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use		NA
14.2.9	Test for second characteristic numeral 9 by high pressure and temperature water jetting		NA
	a) For small enclosures (largest dimension less than 250 mm), the enclosure shall be mounted on the test device shown in Figure 12.		NA
	– turntable speed: 5 r/min $\pm$ 1 r/min		NA
	– spray positions: 0°, 30°, 60°, 90°		NA
	The test duration is 30 s per position.		NA
	b) For large enclosures (largest dimension greater than or equal to 250 mm), the enclosure shall be mounted as per intended use. The entire exposed surface area of the enclosure shall be subjected to the spray at some point during the test procedure.		NA
	– spray positions: the enclosure shall be sprayed from all practical directions covering the entire surface area and the spray shall be, as far as possible, perpendicular to the sprayed surface.		NA





EN 60529			
Clause	Requirement + Test	Result - Remark	Verdict
	– distance between nozzle and sample under test shall be 175 ± 25 mm.		NA
	The test duration is 1 min/m ² of the calculated surface area of the enclosure (excluding any mounting surface), with a minimum duration of 3 min.		NA
14.3	Acceptance conditions		P
	After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.9, the enclosure shall be inspected for ingress of water.	No water ingress the appliance.	P
	In general, if any water has entered, it shall not:		NA
	– be sufficient to interfere with the correct operation of the equipment or impair safety;		NA
	– deposit on insulation parts where it could lead to tracking along the creepage distances;		NA
	– reach live parts or windings not designed to operate when wet;		NA
	– accumulate near the cable end or enter the cable if any.		NA
	If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.		NA
	For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts		NA

Note: possible test case verdicts.

P: Pass, Complies with the requirements.

F: Fail, does not comply with the requirements.

NT: Not tested.

NA: Not applicable.

I: Informative.



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Specimen description

Specimen #	Specimen description	Location
1	Transparent soft plastic	Waterproof bag window
2	Black soft plastic	Waterproof bag edge
3	Black soft plastic	Both sides of part with screw
4	Black plastic	Waterproof bag top
5	Black plastic	Mat of waterproof bag top inner
6	Black plastic	Button of waterproof bag top
7	Black plastic	Waterproof bag middle
8	Black plastic	Round part
9	Black plastic	Square part
10	Black plastic	Nut of long screw outside
11	Black plastic	Main body of part with screw
12	Silvery metal	Screw of waterproof bag
13	Back coated silvery metal	Long screw





Pictures

Sample photo:



Overview of sample-after test



Overview of sample-after test



Open view of sample-after test

End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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