

TEST REPORT

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

Number: HKGC00012458
Date: Jan 05, 2022

Attn: Ken Ho / Candy Yan

Item Name : TWS Wireless Charging Earbuds
Model No. : MO9768



Tests conducted:
As requested by the applicant, refer to attached page(s) for details.

Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details:

<u>Requirement</u>	<u>Result</u>
Regulation (EC) No. 2019/1021 on persistent organic pollutants (POPs) - Short- Chain Chlorinated Paraffins (C10-C13) (SCCP) and Hexabromocyclododecane (HBCDD) Content	Pass

For and on behalf of :
Intertek Testing Services HK Ltd.

Ken Chan
Assistant General Manager



TEST REPORT

Number : HKGC00012458

(1) SCCP and HBCDD Test

(A) Results:

Screened Components	XRF Results		Chemical Confirmation Result
	Bromine (Br)	Chlorine (Cl)	
(1)	ND	ND	--
(2)	ND	#	SCCPs:ND
(3)	#	#	SCCPs : ND HBCDD : ND
(4)	ND	#	SCCPs:ND
(5)	ND	#	SCCPs:ND
(6)	ND	#	SCCPs:ND
(7)	ND	#	SCCPs:ND
(8)	ND	ND	--
(9)	#	ND	HBCDD : ND
(10)	ND	#	SCCPs:ND
(11)	ND	ND	--
(12)	ND	ND	--
(13)	ND	ND	--
(14)	ND	ND	--
(15)	ND	ND	--
(16)	#	#	SCCPs : ND HBCDD : ND
(17)	ND	#	SCCPs:ND
(18)	ND	ND	--
(19)	ND	ND	--
(20)	ND	ND	--
(21)	ND	ND	--
(22)	ND	ND	--
(23)	ND	ND	--
(24)	ND	#	SCCPs:ND
(25)	ND	#	SCCPs:ND
(26)	ND	ND	--

Remark:

ND = Not Detected
ppm = part per million = mg/kg
= Inconclusive



TEST REPORT

Number : HKGC00012458

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Composite Materials
Br	P ≤ 35 < X	P ≤ 35 < X
Cl	P ≤ 280 < X	P ≤ 280 < X

P = Pass

X = Inconclusive result

mg/kg = milligram per kilogram = ppm

(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials
Br	35	35
Cl	280	280

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make its/His/Her own judgment as to whether the information provided in this XRF screening report is sufficient for its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(D) Test Methods

Testing Item	Testing Method	Reporting Limit
XRF screening	With reference to IEC 62321-3-1 edition 1.0 : 2013, by X-ray fluorescence spectrometry	Refer to (C)
Short-Chain Chlorinated Paraffin (C10-C13) (SCCP)	Solvent extraction and followed by Gas Chromatographic - Negative Chemical Ionization - Mass Spectrometry (GC-NCI-MS) Analysis.	0.01 % (100 ppm)
Hexabromocyclododecane (HBCDD) content	Solvent extraction, followed by and Gas Chromatography Mass Spectrometric (GC/MS) analysis.	0.001 % (10 ppm)

(E) Requirement

Restricted substances	Limits
Short-Chain Chlorinated Paraffin (C10-C13) (SCCP)	0.15% (1500 ppm)
Hexabromocyclododecane (HBCDD)	0.01% (100 ppm)

The above limit was quoted according to Regulation (EC) No. 2019/1021 on persistent organic pollutants (POPs).



TEST REPORT

Number : HKGC00012458

Screened components:

- (1) White plastic (terminal holder of USB plug).
- (2) Dull white plastic (USB plug cover).
- (3) Dark grey plastic (terminal holder of micro USB plug).
- (4) Dull white plastic (micro USB plug cover).
- (5) Bright white plastic (cable jacket).
- (6) Red plastic (wire insulator).
- (7) Black plastic (wire insulator).
- (8) Transparent grey plastic (ear buds).
- (9) Shiny white plastic (body of earphone, charger).
- (10) Silver color fabric (filter of earphone).
- (11) Blue plastic (wire insulator).
- (12) White plastic (wire insulator).
- (13) Red plastic (wire insulator).
- (14) Black plastic (wire insulator).
- (15) Grey plastic (button and case of tactile switch).
- (16) Green fibre board (PCB).
- (17) Black felt (on speaker).
- (18) Ivory fibre board with ivory glue (PCB of speaker).
- (19) Transparent plastic (diaphragm of speaker).
- (20) Transparent double side adhesive tape (holder).
- (21) Grey plastic (strap).
- (22) Black foam with adhesive backing (pad).
- (23) Dark grey plastic (terminal holder of micro USB plug slot).
- (24) Dull black plastic (wire insulator).
- (25) Dull red plastic (wire insulator).
- (26) Transparent yellow plastic tape (on coil).

Date sample received: Nov 22, 2021
Testing period: Nov 22, 2021 to Dec 28, 2021

End of report

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