



# TEST REPORT

REPORT No.: **DTIBW20211809-1R**

Date: 2021-08-26

Page 1 of 22

**Applicant Company Name: Dongguan Lingjie Electronics & Technology Co., Ltd**

**Applicant Company Address: Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, P.R.C.**

**The following sample(s) was/were submitted and identified on behalf of the client as:**

Sample Name : Gaming Mouse  
 Model No. : GM530  
 Series Model : GM300 , GM530\*\*\*\*\*(\*=A~Z,a~z,0~9,/ or blank), GM300\*\*\*\*\*(\*=A~Z,a~z,0~9,/ or blank)  
 Trademark : AOC  
 Sample Receiving Date : August 11, 2021; August 25, 2021  
 Testing Period : From August 11, 2021 to August 26, 2021  
 Results : Please refer to next page(s).

\*\*\*\*\*  
**Summary of Test Results:**

**TEST REQUEST**

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU ([RoHS 2.0](#))

**CONCLUSION**

**Pass**

Shenzhen Deesev Testing International Corp

Approved by: \_\_\_\_\_



lab manager

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# TEST REPORT

REPORT No.: **DTIBW20211809-1R**

Date: 2021-08-26

Page 2 of 22

**Results:**

**1. EU RoHS Directive 2011/65/EU and its amendment directives on XRF**

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black Coating	BL	BL	BL	BL	BL
2	Plastic Cover Substrate	BL	BL	BL	BL	BL
3	White Plastic Case	BL	BL	BL	BL	BL
4	Black Plastic Pedestal	BL	BL	BL	BL	BL
5	Black Plastic Button	BL	BL	BL	BL	BL
6	Black Rubber Sheet	BL	BL	BL	BL	BL
7	Grey Electroplating	BL	BL	BL	BL	N/A
8	Metal Pulley Substrate	BL	BL	BL	BL	N/A
9	Translucent Plastic Shaft	BL	BL	BL	BL	BL
10	White Plastic Light Guide	BL	BL	BL	BL	BL
11	Translucent Plastic Light Guide	BL	BL	BL	BL	BL
12	Black Plastic Patch	BL	BL	BL	BL	BL
13	FPC	BL	BL	BL	BL	X
14	Black Rubber Button	BL	BL	BL	BL	BL
15	Silver Metal Screws	BL	BL	BL	BL	N/A
16	Black Flocking	BL	BL	BL	BL	BL
17	Translucent Plastic Layer	BL	BL	BL	BL	BL
18	PCB	BL	BL	BL	BL	X
19	Solder Point	BL	BL	BL	BL	N/A
20	Silver Metal Case (Switch Cover)	BL	BL	BL	BL	N/A

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REPORT No.: **DTIBW20211809-1R**

Date: 2021-08-26

Page 3 of 22

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Black Plastic Shell (Touch Switch)	BL	BL	BL	BL	BL
22	Black Plastic Button (Touch Switch)	BL	BL	BL	BL	BL
23	Silver Metal Sheet (Touch Switch)	BL	BL	BL	X	N/A
24	Patch LED	BL	BL	BL	BL	BL
25	Black Plastic Shell	BL	BL	BL	BL	BL
26	Grey Plastic Pedestal	BL	BL	BL	BL	BL
27	White Plastic Button	BL	BL	BL	BL	BL
28	Gold Metal Sheet	BL	BL	BL	BL	N/A
29	Silver Metal Pin	BL	BL	BL	BL	N/A
30	White Plastic Case	BL	BL	BL	BL	BL
31	Silver Metal Needles	BL	BL	BL	BL	N/A
32	Black Ceramic Components	BL	BL	BL	BL	BL
33	Silver Metal Pin	BL	BL	BL	BL	N/A
34	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	N/A
35	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL
36	Black Plastic Pedestal	BL	BL	BL	BL	BL
37	White Plastic Case	BL	BL	BL	BL	BL
38	LED	BL	BL	BL	BL	BL
39	Black Plastic Frame	BL	BL	BL	BL	BL
40	Beige Plastic Case	BL	BL	BL	BL	BL

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Date: 2021-08-26

Page 4 of 22

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	Silver Metal Needles	BL	BL	BL	BL	N/A
42	Silver Metal Frame	BL	BL	BL	BL	N/A
43	Black Ceramic Body Chip	BL	BL	BL	BL	BL
44	Patch Resistor	BL	BL	BL	BL	BL
45	Multilayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
46	Triode	BL	BL	BL	BL	BL
47	Translucent Plastic Shell	BL	BL	BL	BL	BL
48	Black Plastic Pedestal	BL	BL	BL	BL	BL
49	Black Plastic Button	BL	BL	BL	BL	BL
50	Gold Metal Sheet	BL	BL	BL	BL	N/A
51	Silver Metal Pin	BL	BL	BL	BL	N/A
52	Silver Metal Case	BL	BL	BL	BL	N/A
53	Grey Ceramic Components	BL	BL	BL	BL	BL
54	Silver Metal Pin	BL	BL	BL	X	N/A
55	PCB	BL	BL	BL	BL	X
56	Solder Point	BL	BL	BL	BL	N/A
57	Black Plastic Frame	BL	BL	BL	BL	BL
58	Beige Plastic Case	BL	BL	BL	BL	BL
59	Silver Metal Needles	BL	BL	BL	BL	N/A
60	Silver Metal Frame	BL	BL	BL	BL	N/A

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Date: 2021-08-26

Page 5 of 22

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
61	White Plastic Case	BL	BL	BL	BL	BL
62	LED	BL	BL	BL	BL	BL
63	Black Plastic Shell	BL	BL	BL	BL	BL
64	Grey Plastic Pedestal	BL	BL	BL	BL	BL
65	White Plastic Button	BL	BL	BL	BL	BL
66	Gold Metal Sheet	BL	BL	BL	BL	N/A
67	Silver Metal Pin	BL	BL	BL	BL	N/A
68	White Plastic Plug-In	BL	BL	BL	BL	BL
69	Silver Metal Terminal	BL	BL	BL	BL	N/A
70	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
71	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
72	Pink Plastic Wire Outer Skin	BL	BL	BL	BL	BL
73	Green Plastic Wire Outer Skin	BL	BL	BL	BL	BL
74	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
75	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
76	Black Plastic Fasteners	BL	BL	BL	BL	BL
77	Black Braided Rope Sleeve	BL	BL	BL	BL	BL
78	Black Plastic Skin	BL	BL	BL	BL	BL
79	Silver Shielding Paper	BL	BL	BL	BL	BL
80	Metal shielded Wire	BL	BL	BL	BL	N/A

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Date: 2021-08-26

Page 6 of 22

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
81	Black Soft Plastics	BL	BL	BL	BL	BL
82	Black Ceramic Body	BL	BL	BL	BL	BL
83	Black Soft Plastics (USB)	BL	BL	BL	BL	BL
84	Internal Translucent Plastic (USB)	BL	BL	BL	BL	BL
85	Gold Metal Case (USB)	BL	BL	BL	BL	N/A
86	Internal White Plastic (USB)	BL	BL	BL	BL	BL
87	Gold Metal Needles	BL	BL	BL	BL	N/A
88	Solder Point	BL	BL	BL	BL	N/A

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REPORT No.: **DTIBW20211809-1R**

Date: 2021-08-26

Page 7 of 22

Remark:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

- BL = Below Limit
- OL = Over Limit
- X = Inconclusive
- N/A = Not Applicable

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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Date: 2021-08-26

Page 8 of 22

(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	≤100
Lead (Pb)	≤1000
Mercury (Hg)	≤1000
Hexavalent Chromium (Cr(VI))	≤1000
Polybrominated biphenyls (PBBs)	≤1000
Polybrominate ddiphenylethers (PBDEs)	≤1000

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