

STC
Test Report

Date : 2023-09-04
No. : HC23061003

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Applicant(Code:02150042): Morellato & Sector Ltd (Hong Kong)
Unit B 12/F Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung NT HK

Description of Sample(s) : One submitted sample said to be SFIDA Complete Watch.
Brand Name : MASERATI
Supplier : ORO TIME
Style / Item Code : R8871640004
Country of Origin : China
Country of Destination : Europe

Date Sample(s) Received : 2023-06-21

Date Tested : 2023-06-25 to 2023-08-31



LAU Yuk Kuen, Joey
Authorized Signatory

Chemical and Food Department
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



The Hong Kong Standards and Testing Centre Limited

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Result Summary:

No.	Test Requested	Conclusion	Remark
1	Verification test – European Council Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2.0)	PASS	-
2	Phthalates (DBP, BBP, DEHP, DIBP) content - European Council Directive 2011/65/EU on the restriction of the use of certain Hazardous substances in electrical and electronic equipment (RoHS 2.0) and its amended DIRECTIVE (EU) 2015/863 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances	PASS	-

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Test Result(s):

VERIFICATION TEST - EUROPEAN COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS)

Method(s) Used: IEC 62321-3-1 (2013), IEC 62321-5 (2013), IEC 62321-7-1 (2015), IEC 62321-6 (2015)

-		Result					-
Parameter		Pb	Cd	Hg	Cr/ CrVI	Br/PBBs PBDEs	-
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	Item / Component Description	-	-	-	-	-	Conclusion
1	Silvery metal (back shell)	BL	BL	BL	Negative#	NA	Pass
2	Silvery metal (adjuster pin)	BL	BL	BL	Negative#	NA	Pass
3	Golden metal (shell)	BL	BL	BL	Negative#	NA	Pass
4	Golden metal (shell decorative ring)	BL	BL	BL	Negative#	NA	Pass
5	Silvery metal with blue / golden coating (on shell decorative ring)	BL	BL	BL	BL	NA	Pass
6	Transparent glass (shell)	BL	BL	BL	BL	NA	Pass
7	Black plastic (gasket of back shell)	BL	BL	BL	BL	BL	Pass
8	White plastic (inner bottom)	BL	BL	BL	BL	BL	Pass
9	White translucent plastic (gasket of glass shell)	BL	BL	BL	BL	BL	Pass
10	Blue plastic (watchband)	BL	BL	BL	BL	BL	Pass
11	Double faced adhesive tape	BL	BL	BL	BL	BL	Pass
12	Light silvery golden metal with blue / white coating (on dial)	22185 #	BL	BL	BL	NA	Exempted*
13	Golden metal with white coating (watch pointer / dial scale)	BL	BL	BL	BL	NA	Pass
14	Silvery metal with blue / white coating (dial)	ND#	BL	BL	BL	NA	Pass
15	Black plastic (inner bottom)	BL	BL	BL	BL	BL	Pass
16	Grey plastic (inner bottom)	BL	BL	BL	BL	BL	Pass



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-		Result					-
Parameter		Pb	Cd	Hg	Cr/ CrVI	Br/PBBs PBDEs	-
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	Item / Component Description	-	-	-	-	-	Conclusion
17	White plastic with black coating (date)	BL	BL	BL	BL	BL	Pass
18	Beige plastic (end of watchband)	BL	BL	BL	BL	BL	Pass
19	Deep grey plastic (inner bottom)	BL	BL	BL	BL	BL	Pass
20	Dull silvery metal (inner bottom gasket)	BL	BL	BL	Negative#	NA	Pass
21	Silvery metal (inner bottom gasket / pin / gear)	BL	BL	BL	BL	NA	Pass
22	Copper metal (watch fuse)	BL	BL	BL	BL	NA	Pass
23	Silvery metal (watch pin tube)	BL	BL	BL	BL	NA	Pass
24	Silvery metal (watch pin)	BL	BL	BL	Negative#	NA	Pass
25	Golden metal (watch knob)	ND#	BL	ND#	Negative#	NA	Pass
26	Silvery metal (watch knob base)	BL	BL	BL	Negative#	NA	Pass
27	Silvery metal (watch knob spring)	BL	BL	BL	Negative#	NA	Pass
28	Silvery metal (watch knob pin)	BL	BL	BL	Negative#	NA	Pass
29	Green / black / golden PCB	BL	BL	BL	BL	BL	Pass
30	Silvery metal (on PCB cylinder)	BL	BL	BL	BL	NA	Pass
31	Black body	BL	BL	BL	BL	BL	Pass
32	Black body	BL	BL	BL	BL	BL	Pass
33	Silvery metal (watch pin spring)	BL	BL	BL	Negative#	NA	Pass
34	Black / golden plastic (end of fuse)	BL	BL	BL	BL	BL	Pass
35	Dull grey plastic (gear)	BL	BL	BL	BL	BL	Pass
36	Dull green plastic (gear)	BL	BL	BL	BL	BL	Pass
37	White plastic (gear)	BL	BL	BL	BL	BL	Pass
38	Transparent plastic (end of fuse)	BL	BL	BL	BL	BL	Pass



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-		Result					-
Parameter		Pb	Cd	Hg	Cr/ CrVI	Br/PBBs PBDEs	-
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	Item / Component Description	-	-	-	-	-	Conclusion
39	Golden metal (watch inner pin)	22050 #	BL	BL	BL	NA	Exempted*
40	Golden metal (gear)	BL	BL	BL	BL	NA	Pass
41	Silvery metal (watch inner pin)	BL	BL	BL	Negative#	NA	Pass
42	Golden metal (watch inner)	8889#	BL	BL	BL	NA	Exempted*

Note(s):

- BL = Below limit
- OL = Over limit
- M = Marginal
- NR = Not requested
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- % = percent
- 10000 mg/kg = 1 %
- NA = Not applicable
- ND = not detected
- Pb = Lead, Cd = Cadmium, Hg = Mercury, Cr = Chromium, Br = Bromine
- Detection Limit: See Appendix.

Remark(s):

- # denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- When the result(s) is (are) marginal, it is recommended to further perform related wet chemistry method for confirmation. See interpretation of result(s) in Appendix.
- *According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here "Copper alloy containing up to 4 % lead by weight.". Test Item(s) < 12, 39, 42 > was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- Test item(s) is (are) indicated on the photograph(s) in Comment.
- Tested part(s) was/ were specified by client.

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Photograph(s) [Preliminary Screening Assessment for European Council Directive 2011/65/EU] :



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APPENDIX

List of Analytes, their Corresponding Detection Limit and Maximum Allowable Limit [Preliminary Screening Assessment for European Council Directive 2011/65/EU] :					
No.	Name of Analytes	Detection Limit (mg/kg)			Maximum Allowable Limit (mg/kg)
		Plastic	Metallic /glass/ ceramic	Others	
1	Lead (Pb)	100	200	200	1000
2	Cadmium (Cd)	50	50	50	100
3	Mercury (Hg)	100	200	200	1000
4	Chromium (Cr)	100	200	200	NA
5	Chromium VI (Cr VI)	NA	NA	NA	1000
6	Bromine (Br)	200	NA	200	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Sum 1000
NA = Not applicable					



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Interpretation of Result(s) [Preliminary Screening Assessment for European Council Directive 2011/65/EU] :			
Element	Non-metal	Metal	Composite material
Lead (Pb)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL < X < (150 + 3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Bromine (Br)	$BL \leq (300 - 3\sigma) < X$	-	$BL \leq (250 - 3\sigma) < X$
X = Region considers as marginal result 3σ = Repeatability of XRF analyser at action level			

PHthalATES (DBP, BBP, DEHP, DIBP) CONTENT - EUROPEAN COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS 2.0) AND ITS AMENDED DIRECTIVE (EU) 2015/863 AMENDING ANNEX II TO DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL AS REGARDS THE LIST OF RESTRICTED SUBSTANCES

Method Used: IEC 62321-8:2017, analyzed by Gas Chromatography with Mass Selective Detector

Sample Identity	Item/ Component Description	Style
7	Black plastic (gasket of back shell)	-
8	White plastic (inner bottom)	-
9	White translucent plastic (gasket of glass shell)	-
10	Blue plastic (watchband)	-
11	Double faced adhesive tape	-
15	Black plastic (inner bottom)	-
16	Grey plastic (inner bottom)	-
17	White plastic with black coating (date)	-
18	Beige plastic (end of watchband)	-
19	Deep grey plastic (inner bottom)	-
29	Green / black / golden PCB	-
34	Black / golden plastic (end of fuse)	-
37	White plastic (gear)	-



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Maximum Allowable Limit (mg/kg):	BBP, DBP, DEHP, DIBP (each)<0.1%
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Substance Name	CAS No.	Result(s) (%)	
		7+8+9+10+11	15+16+17+18+19
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND
Dibutyl phthalate (DBP)	84-74-2	ND	ND
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	ND
Di-iso-butyl phthalate (DIBP)	84-69-5	ND	ND
Conclusion	-	Pass	Pass

Substance Name	CAS No.	Result(s) (%)	
		29	34+37
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND
Dibutyl phthalate (DBP)	84-74-2	ND	ND
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	ND
Di-iso-butyl phthalate (DIBP)	84-69-5	ND	ND
Conclusion	-	Pass	Pass

Note(s):
- ND = not detected
- Method Limit=0.005% (each)

Remark(s):
- Tested part(s) was/ were specified by client.
- For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).

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PHOTO(S):



******* End of Test Report *******

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