

ULR -TC582522000004102F

Report No. : PN:EE:1356004799



	2 · · ·		
THE FOLLOWING SAMPLE(S SAMPLE DESCRIPTION OEM COUNTRY OF ORIGIN SAMPLE RECD ON TEST(S) REQUESTED	6) WAS/WERE SUBMITTED AND IDEN Cap [Silver grey metal] OTHERS INDIA 28/11/2022 RoHS 4E	TIFIED BY/ON BEHALF OF THE PERIOD : 09/12/2022 12/12/202	
	Test Description	Remarks	
	ROHS 4E	Pass	

TEST REPORT

CONCLUSION : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium and Hexavalent chromium comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Per Pro SGS India Private Ltd

SACHIN M. VIBHUTE Sr.Executive

Authorized Signatory Email your Test Report Related Enquiries at feedback.trp@sgs.com

JOE No. : 2256801084

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Control No.: 1356504570

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Test Part Description:

Product No.	Sample No.	Material Description	Remarks
	-	Cap [Silver grey metal]	

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method:

- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3) With reference to IEC 62321-4:2017-07, determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321 7 1: 2015.09, determination of Hexavalent Chromium in colorless & colored corrosion- protected coatings on metals by the colorimetric method.
- (5) With reference to 62321 7 2: 2017.03, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis Spectrophotometer.

Test result:

Test Item(s):	Unit	<u>Results</u>	Reporting Limit	<u>Acceptance</u> <u>Criteria</u>
Cadmium(Cd)	mg/kg	n.d.	5	100 (0.01%)
Lead (Pb)	mg/kg	204	5	1000 (0.1%)
Mercury (Hg)	mg/kg	n.d.	5	1000 (0.1%)
Hexavalent Chromium (Cr(VI)) [♥]	µg/cm²	n.d.	0.1	

Remarks:

- (1) 1mg/kg=0.0001%
- (2) n.d = not detected (<Reporting Limit)
- (3) = not regulated

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Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

<u>http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25</u> (2) Test has been performed on composite parts as per client's request

- (3) a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.

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TC-5825

ULR -TC582522000004102F Report No. : PN:EE:1356004799

DATE: 13/12/2022

Process Flow for analysis of metal contents in plastics, metals and electronic components sample



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DATE : 13/12/2022

TC-5825

ULR -TC582522000004102F Report No. : PN:EE:1356004799

DATE : 13/12/2

Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample







ULR -TC582522000004102F Report No. : PN:EE:1356004799

DATE: 13/12/2022

Sample Photo:



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*** End of Report ***

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ULR -TC582522000004101F

Report No. : PN:EE:1356004798



		v	
THE FOLLOWING SAMPLE(S SAMPLE DESCRIPTION OEM COUNTRY OF ORIGIN SAMPLE RECD ON TEST(S) REQUESTED) WAS/WERE SUBMITTED AND IDEN Header [Silver grey metal] OTHERS INDIA 28/11/2022 RoHS 4E	FIFIED BY/ON BEHALF PERIOD : 09/12/2022 – 1	
	Test Description	Remarks	
	ROHS 4E	Pass	
Cadmium	the performed tests on selected par and Hexavalent chromium comply Annex II to Directive 2011/65/EU.		

TEST REPORT

Per Pro SGS India Private Ltd

SACHIN M. VIBHUTE Sr.Executive

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ULR -TC582522000004101F Report No. : PN:EE:1356004798

DATE: 13/12/2022

Test Part Description:

Product No.	Sample No.	Material Description	Remarks
	-	Header [Silver grey metal]	

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method:

- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3) With reference to IEC 62321-4:2017-07, determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321 7 1: 2015.09, determination of Hexavalent Chromium in colorless & colored corrosion- protected coatings on metals by the colorimetric method.
- (5) With reference to 62321 7 2: 2017.03, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis Spectrophotometer.

Test result:

Test Item(s):	Unit	<u>Results</u>	Reporting Limit	<u>Acceptance</u> <u>Criteria</u>
Cadmium(Cd)	mg/kg	n.d.	5	100 (0.01%)
Lead (Pb)	mg/kg	n.d.	5	1000 (0.1%)
Mercury (Hg)	mg/kg	n.d.	5	1000 (0.1%)
Hexavalent Chromium (Cr(VI)) [▼]	µg/cm²	n.d.	0.1	

Remarks:

- (1) 1mg/kg=0.0001%
- (2) n.d = not detected (<Reporting Limit)
- (3) = not regulated

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Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

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- (3) a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.

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TC-5825

ULR -TC582522000004101F Report No. :PN:EE:1356004798

Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Tested By: Tanvi Chemist Checked By: Sachin Vibhute Sr.Executive

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TC-5825

ULR -TC582522000004101F Report No. : PN:EE:1356004798

DATE : 13/12/2022

Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample



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TEST REPORT

Sample Photo:



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ULR -TC582522000004103F TEST REPORT Report No. : PN:EE:1356004800 DATE: 21/12/2022 THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS : SAMPLE DESCRIPTION Blue [Ceramic glass] OEM OTHERS COUNTRY OF ORIGIN INDIA 28/11/2022 SAMPLE RECD ON TESTING PERIOD : 09/12/2022 - 16/12/2022 **TEST(S) REQUESTED** ROHS 10E

ROHS 10E	PASS	
Test Description	Remarks	

CONCLUSION : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) **comply** with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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SACHIN M. VIBHUTE Sr.Executive

Authorized Signatory

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TEST REPORT

DATE: 21/12/2022

Test Part Description:

Product No.	Sample No.	Material Description	Remarks
	-	Blue [Ceramic glass]	

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method:

- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3) With reference to IEC 62321-4:2017-07, determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321-7-2:2017-03, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis Spectrophotometer.
- (5) With reference to IEC 62321-6:2015-06, determination of PBBs and PBDEs by GC-MS.
- (6) With reference to IEC 62321-8:2017-03, determination of phthalates by GC-MS.

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TEST REPORT

DATE: 21/12/2022

Test result:

Test Item(s):	Unit	<u>Results</u>	Reporting Limit	Acceptance Criteria
Cadmium(Cd)	mg/kg	n.d.	5	100
Lead (Pb)	mg/kg	n.d.	5	1000
Mercury (Hg)	mg/kg	n.d.	5	1000
Hexavalent Chromium (CrVI)	mg/kg	n.d.	8	1000
Sum of PBBs	mg/kg	n.d.	-	1000
Monobromobiphenyl	mg/kg	n.d.	50	-
Dibromobiphenyl	mg/kg	n.d.	50	-
Tribromobiphenyl	mg/kg	n.d.	50	-
Tetrabromobiphenyl	mg/kg	n.d.	50	-
Hexabromobiphenyl	mg/kg	n.d.	50	-
Pentabromobiphenyl	mg/kg	n.d.	50	-
Heptabromobiphenyl	mg/kg	n.d.	50	-
Octabromobiphenyl	mg/kg	n.d.	50	-
Nonabromobiphenyl	mg/kg	n.d.	50	-
Decabromobiphenyl	mg/kg	n.d.	50	-
Sum of PBDEs	mg/kg	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	n.d.	50	-
Dibromodiphenyl ether	mg/kg	n.d.	50	
Tribromodiphenyl ether	mg/kg	n.d.	50	-
Tetrabromodiphenyl ether	mg/kg	n.d.	50	-
Pentabromodiphenyl ether	mg/kg	n.d.	50	-
Hexabromodiphenyl ether	mg/kg	n.d.	50	-
Heptabromodiphenyl ether	mg/kg	n.d.	50	-
Octabromodiphenyl ether	mg/kg	n.d.	50	-
Nonabromodiphenyl ether	mg/kg	n.d.	50	
Decabromodiphenyl ether	mg/kg	n.d.	50	-
Phthalates				
Dibutyl phthalate (DBP)	mg/kg	n.d.	100	1000
Butyl benzyl phthalate (BBP)	mg/kg	n.d.	100	1000
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	n.d.	100	1000
Diisobutyl Phthalates (DIBP)	mg/kg	n.d.	100	1000

Remarks:

(1) 1mg/kg=0.0001%

(2) n.d = not detected (<Reporting Limit)

(3) - = not regulated

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ULR -TC582	522000	004103F	
Report I	No. :	PN:EE:1	356004800

DATE: 21/12/2022

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

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- (2) The result of Hexavalent Chromium (Cr(VI)) is "n.d." as the result of Chromium (Cr) is "n.d,", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
- (3) If the Chromium (Cr) content is greater than the Reporting Limit of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
- (4) On 4 June 2015, <u>Commission Directive (EU) 2015/863</u> was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (5) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (6) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (7) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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TEST REPORT

DATE: 21/12/2022

Process Flow for analysis of metal contents in plastics, metals and electronic components sample



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TEST REPORT

DATE: 21/12/2022

Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Tested By: Swaroop Kulkarni Sr.Executive Checked By: Sachin Vibhute Sr.Executive

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TEST REPORT

DATE: 21/12/2022

Process Flow for analysis of Hexavalent Chromium contents in plastics, metals and electronic components sample



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DATE: 21/12/2022

Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THE Extraction:



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