

Issued Date: 2024.07.23

Page 1 of 6

POONGSAN CORPORATION

94 Sanam-ro,Onsan-eup Ulju-gun,Ulsan Korea



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

SGS File No.: AYGU24-06248Product Name: C194Item No./Part No.: C194Received Date: 2024. 07. 04Test Period: 2024. 07. 04 to 2024. 07. 23Conclusion: Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.Test Results: For further details, please refer to following page(s)		
Item No./Part No.: C194Received Date: 2024. 07. 04Test Period2024. 07. 04 to 2024. 07. 23Conclusion: Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	SGS File No.	: AYGU24-06248
Received Date: 2024. 07. 04Test Period2024. 07. 04 to 2024. 07. 23Conclusion: Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Product Name	: C194
Test Period2024. 07. 04to2024. 07. 23Conclusion: Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Item No./Part No.	: C194
Conclusion: Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Received Date	: 2024. 07. 04
Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Test Period	2024. 07. 04 to 2024. 07. 23
Test Results : For further details, please refer to following page(s)	Conclusion	Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS
	Test Results	: For further details, please refer to following page(s)

SGS Korea Co., Ltd. / Busan Branch

Taehee Kang / Technical Manager

The test results of this test report are only limited to samples and sample names provided by the client and do not guarantee the quality of all products of the client. This test report shall not be used for public relation, advertisement, lawsuit and shall not be used by excerpts from it. This test report can be checked through the <<u>http://rohs.kr.sgs.com/checkreport/main></u>. This test report is not related to KS Q ISO/IEC 17025 and Korea Laboratory Accreditation Scheme.

REA isoe wy the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx formet, documents, subject to Terms and Conditions of Service printed overleaf, available on request or accessible at <<u>http://www.sgs.com/en/Terms-and-Condition</u> formet, documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-Condition formet, documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-Conditions/terms-and-Conditions/terms-and-conditions/terms-e-document. Attention is drawn indemutioation and jurisdiction issues defined therein Any holder of this document is advised that information This ctronic and tion and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized of liability, inde limi its with and cation of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results alte sh o the sample(s). in this test report refe

50, Sinsan-ro 29beon-gil, Saha-gu, Busan, Korea 49432 t +82 (0)51 795 7300 f +82 (0)51 795 7310<u>http://www.sasgroup.kr</u>



Issued Date : 2024. 07. 23

Page 2 of 6

Sample No.	: AYGU24-06248.001
Sample Description	: C194
Item No./Part No.	: C194
Materials	: N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 : 2013, by ICP-OES	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321-5 : 2013, by ICP-OES	5	13.3
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 : 2013+A1 : 2017, by ICP-OES	2	N.D.
Hexavalent Chromium (Cr VI) *	µg/cm²	With reference to IEC 62321-7-1 : 2015, by UV-Vis	0.1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.

Phthalates

Test Items	Unit	Test Method	MDL	Results	
------------	------	-------------	-----	---------	--

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

MQP-708-001-F12 (01)

SGS Korea Co.,Ltd.

50, Sinsan-ro 29beon-gil, Saha-gu, Busan, Korea 49432 t +82 (0)51 795 7300 f +82 (0)51 795 7310 <u>http://www.sqsgroup.kr</u>



Issued Date: 2024.07.23

Page 3 of 6

Sample No.	: AYGU24-06248.001
Sample Description	: C194
Item No./Part No.	: C194
Materials	: N/A

Phthalates

Test Items	Unit	Test Method	MDL	Results
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8 : 2017, by GC-MS	50	N.D.
Di-butyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8 : 2017, by GC-MS	50	N.D.
Benzyl butyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8 : 2017, by GC-MS	50	N.D.
Di-isobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8 : 2017, by GC-MS	50	N.D.

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) μ g/kg = ppb

(4) MDL = Method Detection Limit

(5) - = No regulation

(6) Negative = Undetectable / Positive = Detectable

(7) ** = Qualitative analysis (No Unit)

(8) * = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm2. The sample coating is considered to contain CrVI.

b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 ug/cm2). The coating is considered a non-CrVI based coating.

c. The result between 0.10 ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

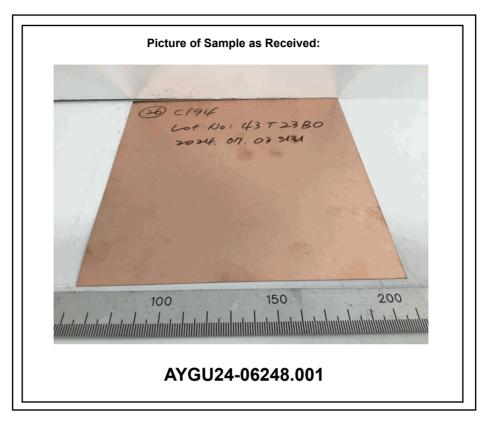
MQP-708-001-F12 (01)

SGS Korea Co.,Ltd.

50, Sinsan-ro 29beon-gil, Saha-gu, Busan, Korea 49432 t +82 (0)51 795 7300 f +82 (0)51 795 7310 <u>http://www.sqsgroup.kr</u>



Page 4 of 6



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

MQP-708-001-F12 (01)

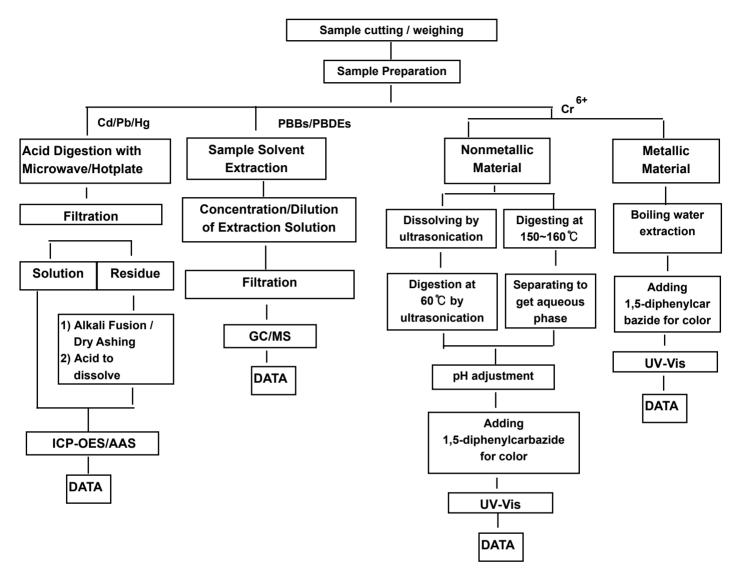
SGS Korea Co.,Ltd.

50, Sinsan-ro 29beon-gil, Saha-gu, Busan, Korea 49432 t +82 (0)51 795 7300 f +82 (0)51 795 7310 <u>http://www.sqsgroup.kr</u>



Page 5 of 6

Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr⁶⁺ /PBBs&PBDEs Testing



The samples were dissolved totally at the acid digestion step of the above flow chart for Cd,Pb,Hg

- Technician : Gihwan Kim / Choah Jeong / Junkwon Park / Sudong Jo

- Supervisor : Taehee Kang

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a https://www.sgs.com/en/terms-and-conditions/terms-e-document_. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

MQP-708-001-F12 (01)

SGS Korea Co.,Ltd.

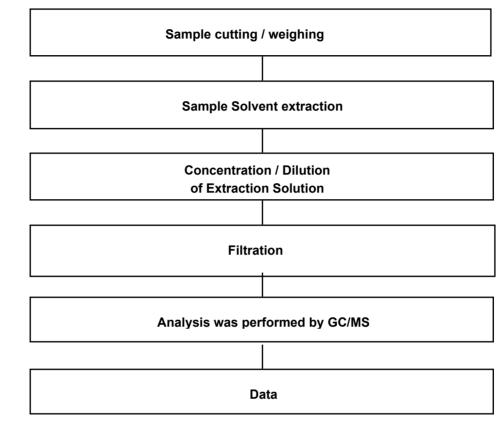
50, Sinsan-ro 29beon-gil, Saha-gu, Busan, Korea 49432 t +82 (0)51 795 7300 f +82 (0)51 795 7310 <u>http://www.sgsgroup.kr</u>



Issued Date : 2024. 07. 23

Page 6 of 6

Flow Chart for PhthalateTest



- Technician : Yukyung Park

- Supervisor : Taehee Kang

*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

MQP-708-001-F12 (01)

SGS Korea Co.,Ltd.

50, Sinsan-ro 29beon-gil, Saha-gu, Busan, Korea 49432 t +82 (0)51 795 7300 f +82 (0)51 795 7310 <u>http://www.sasgroup.kr</u>