

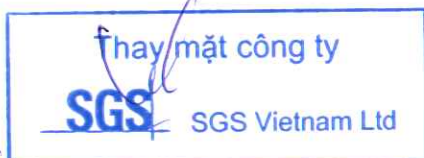
CONG TY TNHH THUONG MAI VA DICH VU SOAR WELL
 41/3 DUONG THONG NHAT, PHUONG BINH THO, QUAN THU DUC, TP HCM, VIET NAM

The following sample was submitted and identified on behalf of the client as below:

SGS Job No. : VNHL2006011439EE
 Sample Description : MUT EPE
 Color : WHITE
 Characteristic : FOAM EPE
 Country of Origin : VIETNAM
 Country of Destination : VIETNAM, EXPORT
 Sample Receiving Date : JUNE 19, 2020
 Final confirmed Date : JUNE 19, 2020
 Testing Period : JUNE 19, 2020 TO JUNE 25, 2020
 Test Requested : PLEASE REFER TO THE RESULT SUMMARY
 Test Results : PLEASE REFER TO NEXT PAGE(S).
 Result Summary :

Test Requested	Conclusion
RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863] (Cadmium, Lead, Mercury, 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))	Pass/ See results

Signed for and on behalf of
SGS Vietnam LTD



Dinh Duy Hai
Chemical Lab Manager

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Test Report

No. VNHL2006011439EE

Date: June 25, 2020

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Test results:
Test Part Description:

Component No.	Description	Material	Color
1	MUT EPE	FOAM	WHITE

RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]

Test Item(s):	Unit	Test Method	Results	RL	Limit	
			1			
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	ND	2	100	
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	ND	2	1000	
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	ND	2	1000	
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-VIS)	ND	8	1000	
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	ND	-	1000	
Monobromobiphenyl	mg/kg		ND	5	-	
Dibromobiphenyl	mg/kg		ND	5	-	
Tribromobiphenyl	mg/kg		ND	5	-	
Tetrabromobiphenyl	mg/kg		ND	5	-	
Hexabromobiphenyl	mg/kg		ND	5	-	
Pentabromobiphenyl	mg/kg		ND	5	-	
Heptabromobiphenyl	mg/kg		ND	5	-	
Octabromobiphenyl	mg/kg		ND	5	-	
Nonabromobiphenyl	mg/kg		ND	5	-	
Decabromobiphenyl	mg/kg		ND	5	-	
Sum of PBDEs	mg/kg		With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	ND	-	1000
Monobromodiphenyl ether	mg/kg			ND	5	-
Dibromodiphenyl ether	mg/kg			ND	5	-
Tribromodiphenyl ether	mg/kg	ND		5	-	
Tetrabromodiphenyl ether	mg/kg	ND		5	-	
Pentabromodiphenyl ether	mg/kg	ND		5	-	
Hexabromodiphenyl ether	mg/kg	ND		5	-	
Heptabromodiphenyl ether	mg/kg	ND		5	-	
Octabromodiphenyl ether	mg/kg	ND		5	-	
Nonabromodiphenyl ether	mg/kg	ND		5	-	
Decabromodiphenyl ether	mg/kg	ND		5	-	
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DEHP by GC-MS)	ND	50	1000	
Butyl benzyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of BBP by GC-MS)	ND	50	1000	
Dibutyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DBP by GC-MS)	ND	50	1000	
Diisobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8:2017 (Determination of DIBP by GC-MS)	ND	50	1000	

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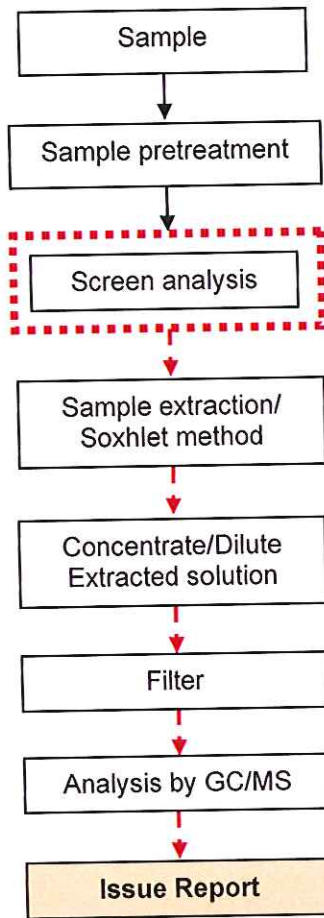
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PBB/PBDE analytical FLOW CHART

First testing process →
 Optional screen process
 Confirmation process - ->



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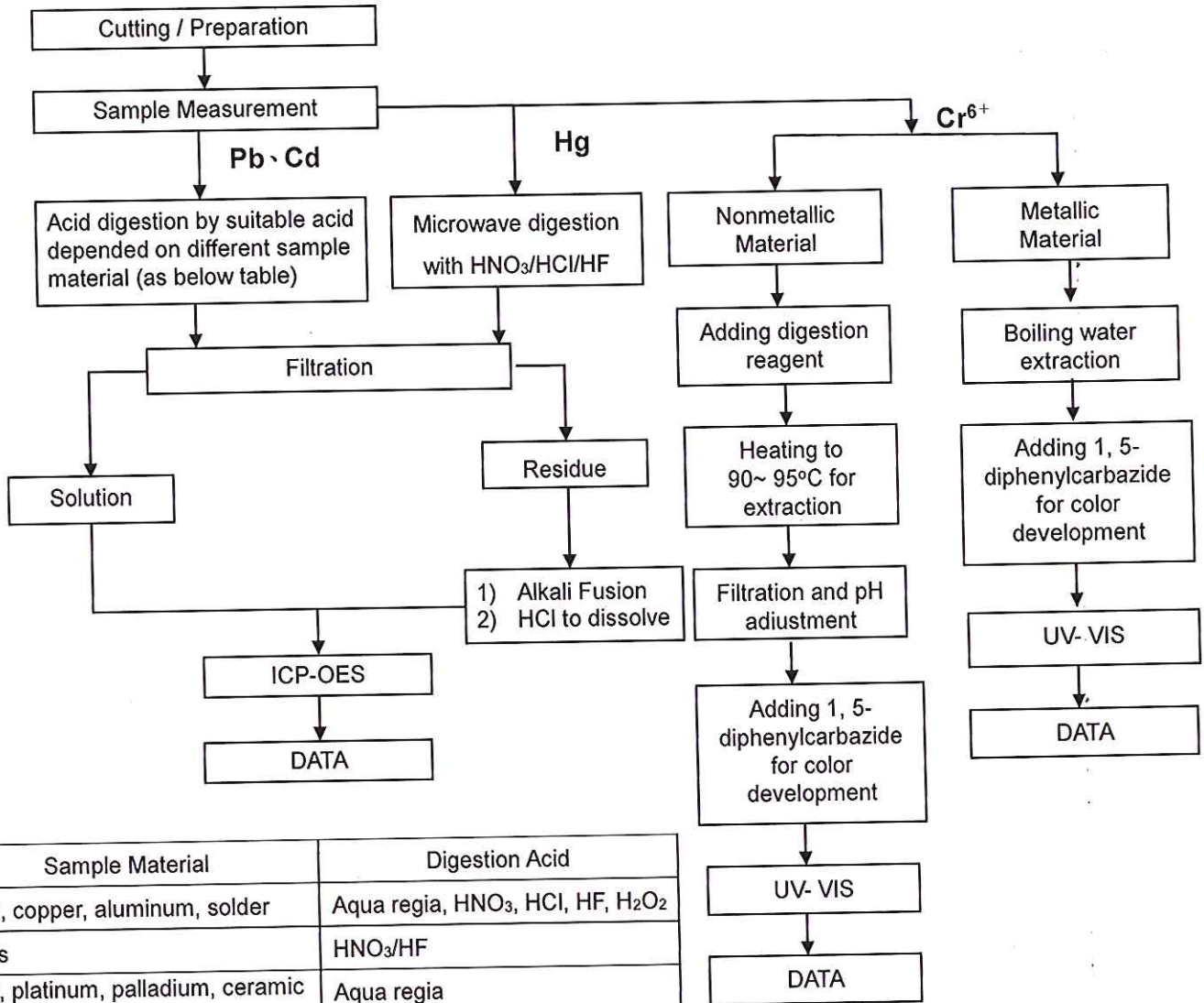
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Flow Chart for RoHS: Pb/Cd/Hg/Cr⁶⁺ Testing

The samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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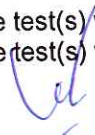
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Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. RL = Reporting Limit
3. ND = Not detected
4. - = not regulated
5. IEC 62321 is equivalent to EN 62321
http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381:::FSP_PROJECT,FSP_LANG_ID:20662,25
6. The above test(s) was / were accredited ISO 17025:2017 by VILAS
 The above test(s) was / were performed by SGS VN's Chemical lab.



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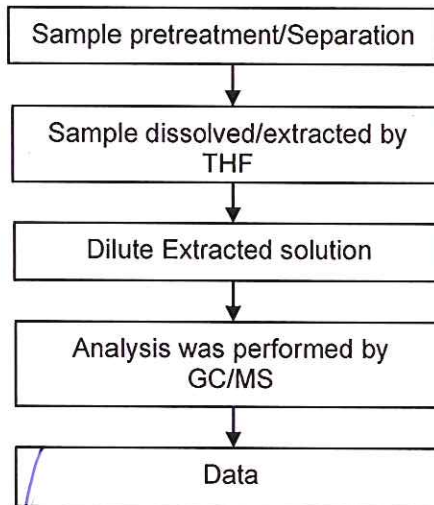
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Analytical flow chart of phthalate content

Test method: IEC 62321-8:2017

First testing process →
 Optional screen process
 Confirmation process ->



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PHOTO OF SUBMITTED SAMPLE FOR TESTING

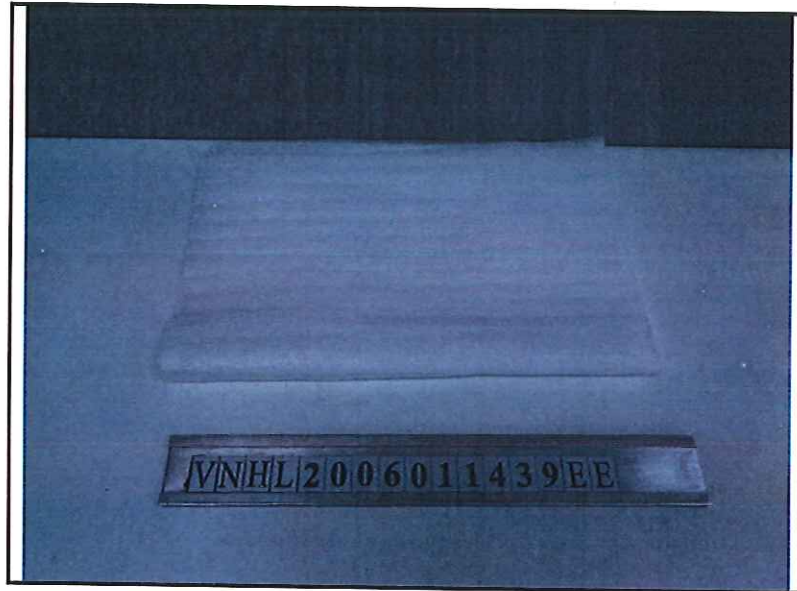
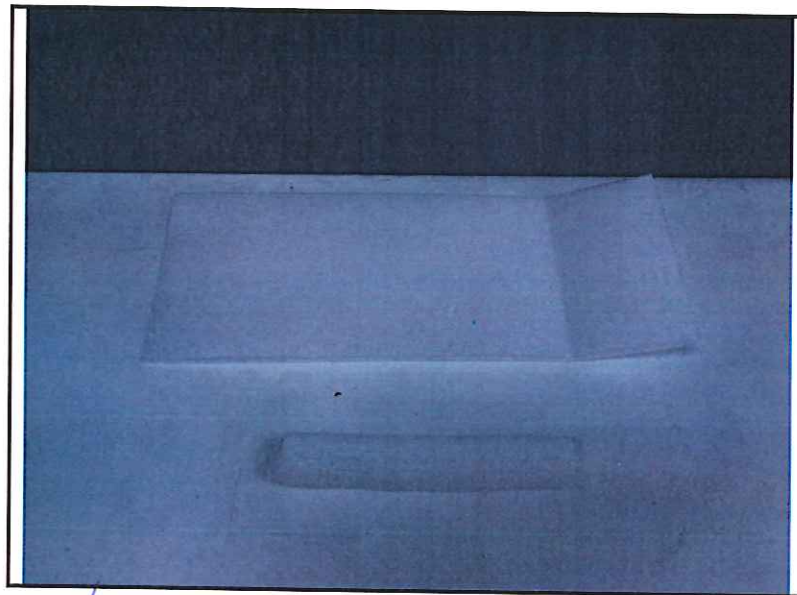


PHOTO OF REFERENCE SAMPLE FOR TESTING



Val
REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY
End of Report

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