

CONG TY TNHH YESUN VIET NAM

KHU PHO THANH BINH, PHUONG XUAN LAM, THI XA THUAN THANH, TINH BAC NINH, VIET NAM.

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

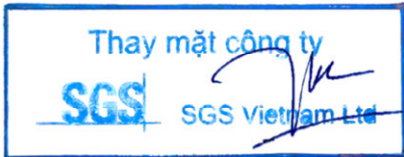
SGS Job No. : VNHL2506020398EE
Sample Description : PE FOAM
Characteristic : PE FOAM
Color : WHITE

The above sample(s) and information were provided by the client.

Sample Receiving Date : JUNE 27, 2025
Final confirmed Date : JUNE 27, 2025
Testing Period : JUNE 27, 2025 TO JULY 03, 2025
Test Requested : SELECTED TEST(S) AS REQUESTED BY THE CLIENT.
Test method(s) : PLEASE REFER TO NEXT PAGE(S).
Test result(s) : PLEASE REFER TO NEXT PAGE(S).
Result Summary :

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – Lead, Mercury, Cadmium, 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)	Pass
Halogen content (Cl, Br, F, I)	See result(s)

Signed for and on behalf of
SGS Vietnam LTD



Ton Thien Thuy Hang
Connectivity SBU Manager



ZMX6NUPP

Your feedback helps us moving. Please click and rate us here:
<https://forms.office.com/e/44Xava3YkX>

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Test results:
Sample Description:

Component No.	Description	Material	Color
1	WHITE FOAM (PE FOAM)	FOAM	WHITE

1. EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, 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)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	RL	Result
				1
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	RL	Result
				1
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Note:

- 1mg/kg=0.0001%
- RL = Reporting Limit
- ND = Not detected
- = not regulated
- The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series.
- 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
- 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.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.

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2. Halogen content

Test Item(s)	Unit	Method	Result(s)	RL
			1	
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to EN 14582: 2016, Halogen analysis was performed by IC.	ND	20
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg		ND	50
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg		ND	50
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg		ND	50

Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. RL = Reporting Limit
3. ND = Not detected

Remark: 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.

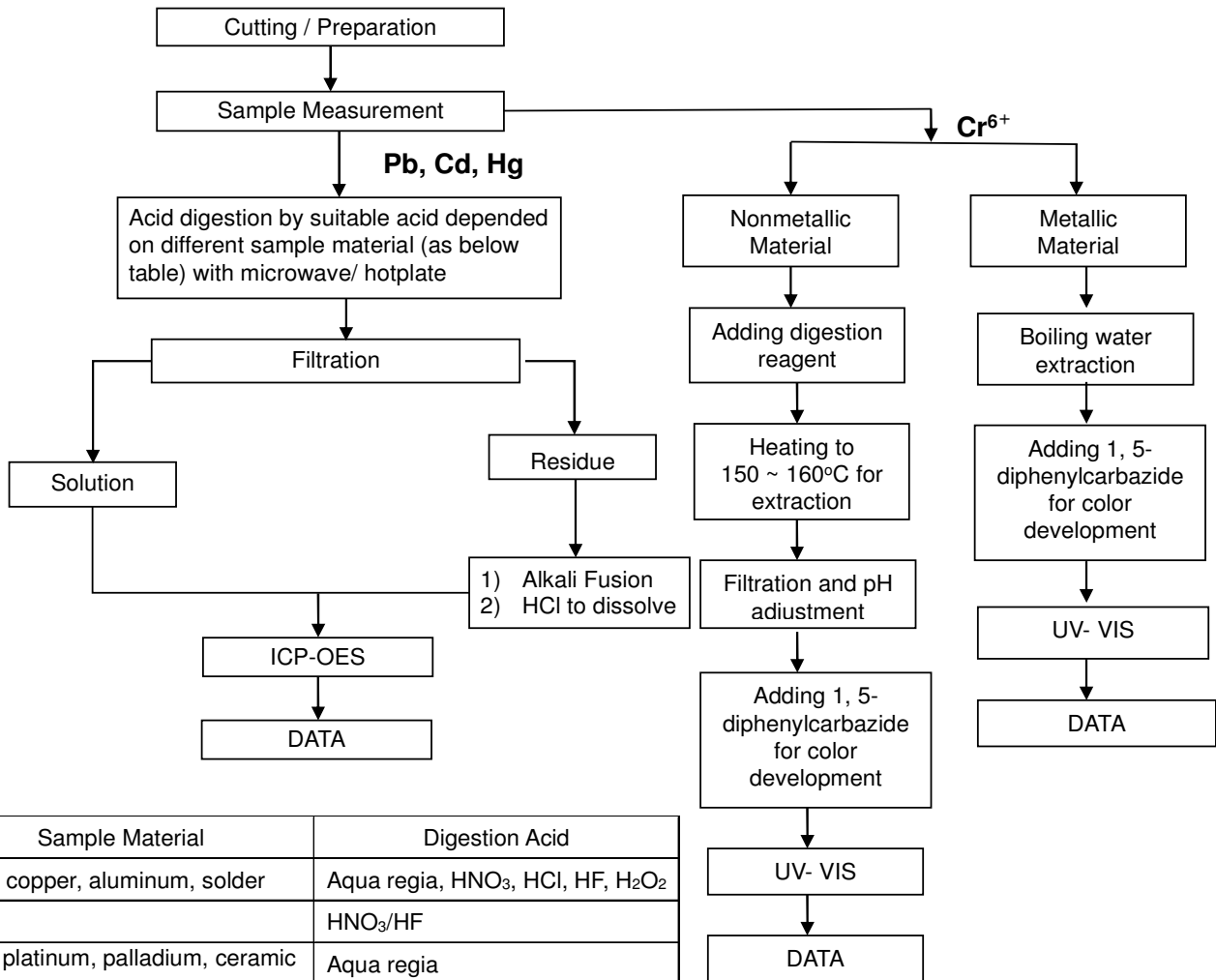
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Flow Chart for RoHS: Pb/Cd/Hg/Cr⁶⁺ Testing

These 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

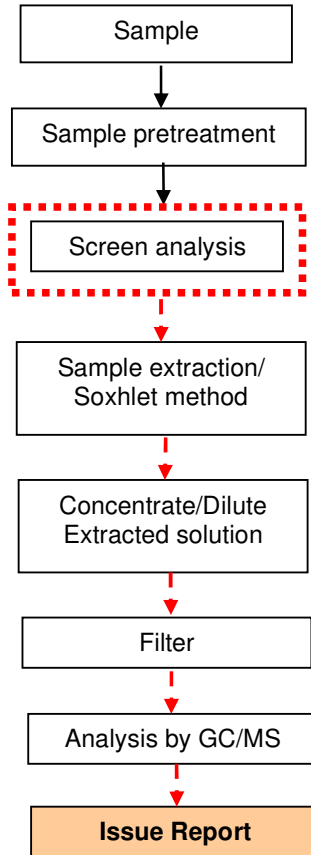
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Flow chart of PBB/PBDE Testing

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

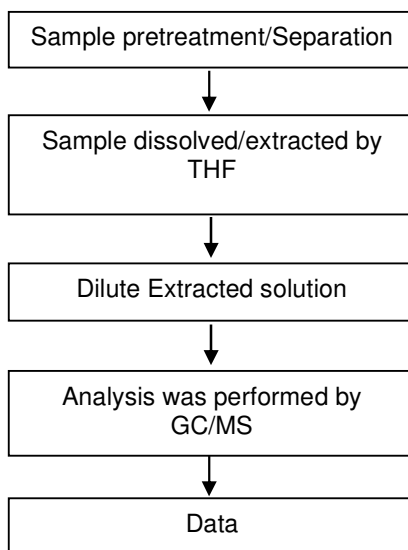


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Flow chart of Phthalate Testing

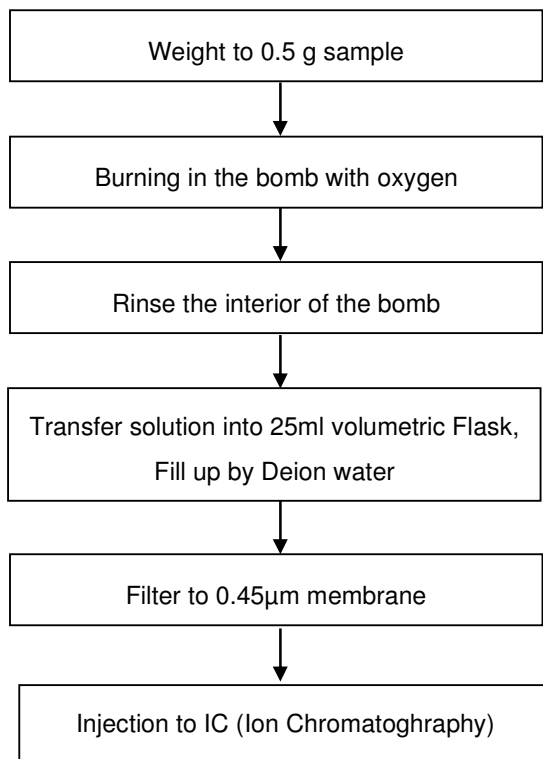


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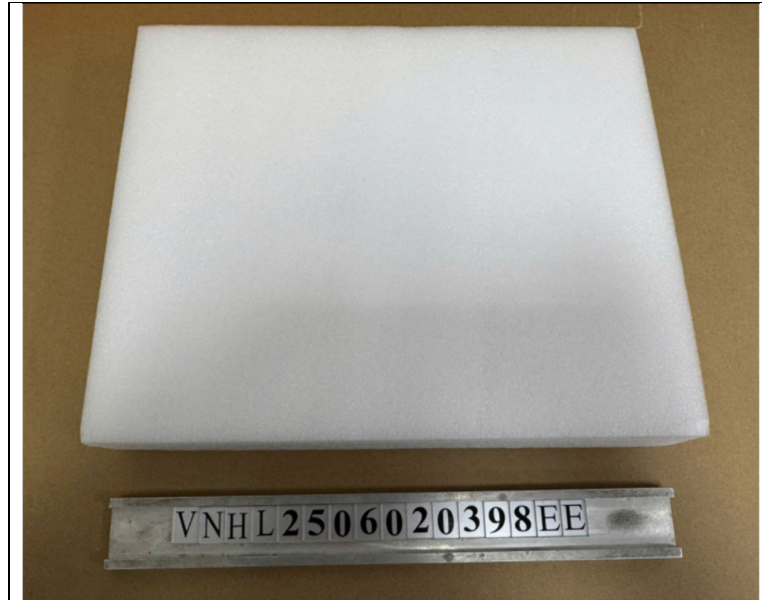
Analytical flow chart of Halogen content



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PHOTO OF SUBMITTED SAMPLE FOR TESTING

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

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