

# Test Report

No. : KA/2020/50778

Date : 2020/05/12

Page: 1 of 6

Prolimatech Co., Ltd.

14F., No. 249, Sec 2, New Taipei Blvd., Sinjhuang District, New Taipei City 242, TAIWAN (R.O.C.)

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

Sample Description : THERMAL GREASE  
Style/Item No. : S606C  
Sample Receiving Date : 2020/05/12  
Testing Period : 2020/05/12 TO 2020/05/12  
Sample Submitted By : Prolimatech Co., Ltd.

**Test Requested** : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PPBs,PBDEs contents in the submitted sample.

**Test Result(s)** : Please refer to next page(s).

**Conclusion** : Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PPBs,PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

  
Ray Chang / Asst. Manager  
Signed for and on behalf of  
SGS Taiwan Limited



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Page: 2 of 6

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## Test Result(s)

PART NAME No.1 : THERMAL GREASE

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
Monobromobiphenyl	mg/kg		5	n.d.	-
Dibromobiphenyl	mg/kg		5	n.d.	-
Tribromobiphenyl	mg/kg		5	n.d.	-
Tetrabromobiphenyl	mg/kg		5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl	mg/kg		5	n.d.	-
Heptabromobiphenyl	mg/kg		5	n.d.	-
Octabromobiphenyl	mg/kg		5	n.d.	-
Nonabromobiphenyl	mg/kg		5	n.d.	-
Decabromobiphenyl	mg/kg		5	n.d.	-
<b>Sum of PBDEs</b>	mg/kg		-	n.d.	1000
Monobromodiphenyl ether	mg/kg		5	n.d.	-
Dibromodiphenyl ether	mg/kg		5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether	mg/kg		5	n.d.	-
Heptabromodiphenyl ether	mg/kg		5	n.d.	-
Octabromodiphenyl ether	mg/kg		5	n.d.	-
Nonabromodiphenyl ether	mg/kg		5	n.d.	-
Decabromodiphenyl ether	mg/kg		5	n.d.	-

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Page: 3 of 6

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## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

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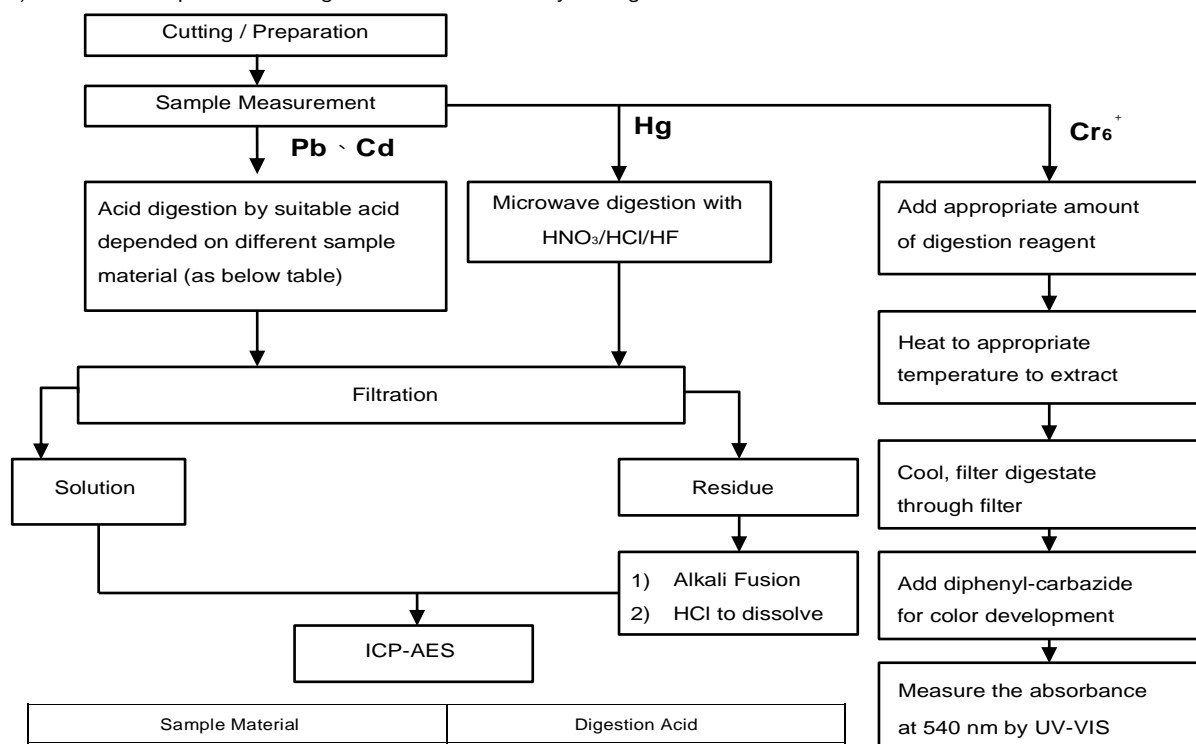
Date : 2020/05/12

Page: 4 of 6

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14F., No. 249, Sec 2, New Taipei Blvd., Sinjhuang District, New Taipei City 242, TAIWAN (R.O.C.)

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



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

**Note\*\*** : (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.  
 (2) For metallic material, add pure water and heat to boiling.

## Test Report

No. : KA/2020/50778

Date : 2020/05/12

Page: 5 of 6

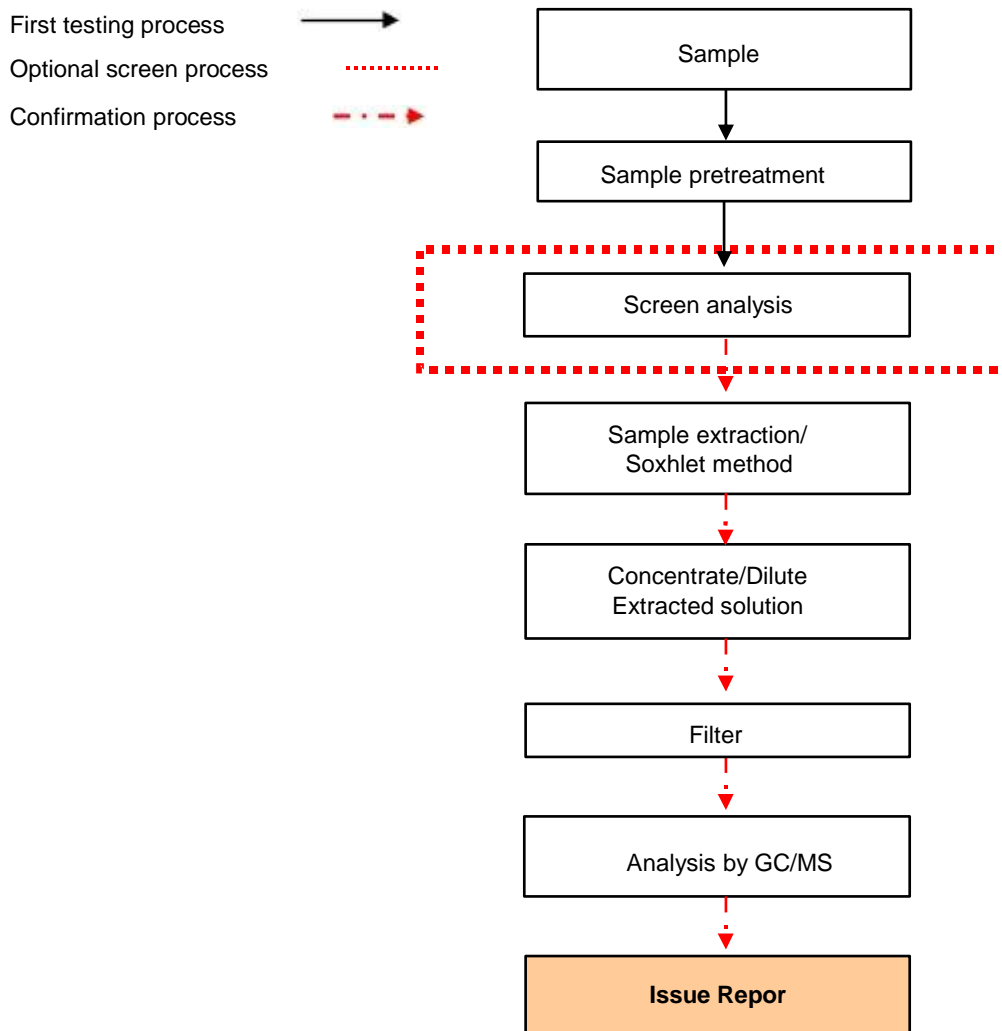
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### PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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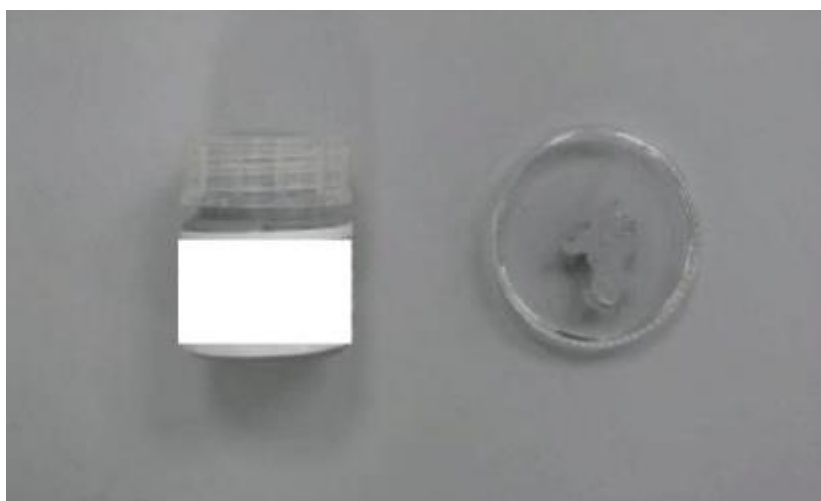
Date : 2020/05/12

Page: 6 of 6

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**\* The tested sample is shown on the photo. \***



**\*\* End of Report \*\***

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