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SHIN-ETSU SILICONE TAIWAN CO., LTD. RM. D, 11F., NO. 167, DUNHUA N. RD., SONGSHAN DIST., TAIPEI CITY 10549, TAIWAN

The following sample(s) Sample Submitted By Sample Name Style/Item No.	was/we : : :	ere submitted and identified by/on behalf of the applicant as: SHIN-ETSU SILICONE TAIWAN CO., LTD. SILICONE GREASE X-23-7935-11
Sample Receiving Date Testing Period	:	16-Aug-2021 16-Aug-2021 to 30-Aug-2021
Test Requested :	(1)	As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
Test Results :	(2)	Please refer to next pages for the other item(s). Please refer to following pages.





PIN CODE: 3C6844E2

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#### RM. D, 11F., NO. 167, DUNHUA N. RD., SONGSHAN DIST., TAIPEI CITY 10549, TAIWAN

#### Test Part Description

No.1 : GRAY PASTE

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
Lead (Pb) (CAS No.: 7439-92-1)	analysis was performed by ICP-OES.	mg/kg	2	5.68
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV- VIS.	mg/kg	8	n.d.
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.
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.
Monobromodiphenyl ether	analysis was performed by GC/MS.	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.
Sum of PBDEs		mg/kg	-	n.d.

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017, mg/kg		
017. I ma/ka		No.1
5 5	50	n.d.
S.		
	50	n.d.
	50	n.d.
	50	n.d.
016, mg/kg	50	n.d.
016, mg/kg	50	n.d.
mg/kg	0.01	n.d.
mg/kg	0.01	n.d.
.996, mg/kg	2	n.d.
ES.		
013, **	-	Negative
and		-
.996, mg/kg	2	n.d.
.996, mg/kg	2	n.d.
mg/kg	0.5	n.d.
mg/kg	5	n.d.
ma/ka	0.5	n.d.
5. 5		
	S. mg/kg 2016, mg/kg 2016, mg/kg 2016, mg/kg 2016, mg/kg 2016, mg/kg 2013, ** 2013, ** 2013, ** 2016, mg/kg 2016, mg/kg	S. mg/kg 50 017, mg/kg 50 S. mg/kg 50 2016, mg/kg 50 2016, mg/kg 50 2016, mg/kg 0.01 mg/kg 0.01 996, mg/kg 2 ES. mg/kg 2 996, mg/kg 2 S. mg/kg 2 996, mg/kg 2 S. mg/kg 2 1013, ** - 1013, ** - 1013, mg/kg 2 1013, mg/kg 2 1013, mg/kg 1 1013, mg/kg 0.5 1013, mg/kg 0.5

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Short Chain Chlorinated Paraffins(C10-	With reference to ISO 18219: 2015,	mg/kg	50	n.d.
C13) (SCCP) (CAS No.: 85535-84-8)	analysis was performed by GC/MS.			
Tributyl tin (TBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Bis(tributyltin) oxide (TBTO) (CAS No.:	Calculated from the result of Tributyl	mg/kg	0.03 🛦	n.d.
56-35-9)	Tin (TBT).			
Triphenyl tin (TPhT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Dibutyl tin (DBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Dioctyl tin (DOT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Hexabromocyclododecane (HBCDD)	With reference to IEC 62321: 2008,	mg/kg	5	n.d.
and all major diastereoisomers	analysis was performed by GC/MS.			
identified (α- HBCDD, β- HBCDD, γ-				
HBCDD) (CAS No.: 25637-99-4, 3194-				
55-6 (134237-51-7, 134237-50-6,				
134237-52-8))				

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. \*\*= Qualitative analysis (No Unit)
- 6. Negative = Undetectable ; Positive = Detectable
- 7. PFOS and its salts including :

CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.

- 8. PFOA and its salts including : CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 9. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula :  $AX = A \times F$ 

	AX	А	F
Bis(tributyltin)oxide (TBTO)		Tributyl Tin (TBT)	1.024
Parameter Conversion Table ·	https://eecloud.sgs.com/Region_TW/DocDownload.aspx#otherDoc		

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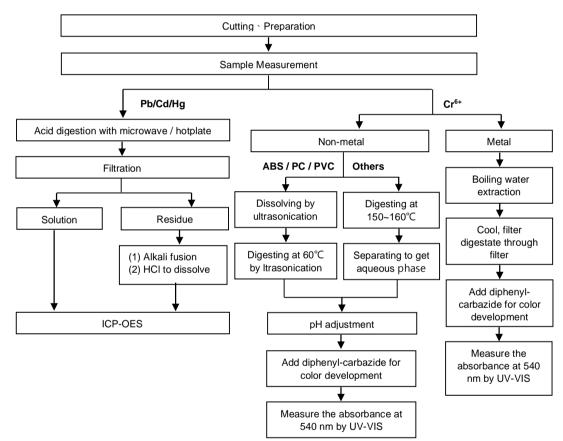
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#### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

( Cr<sup>6+</sup> test method excluded )



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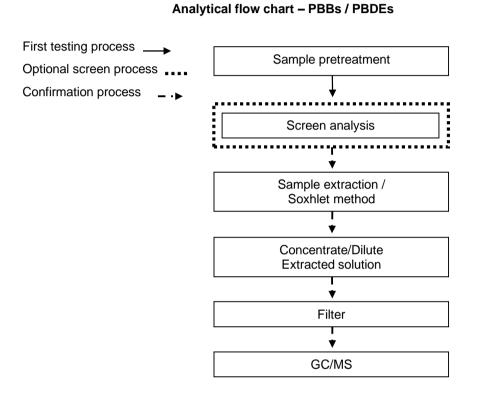
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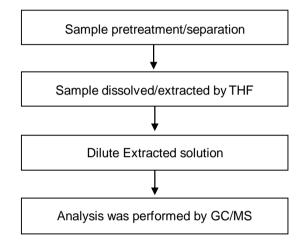
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#### Analytical flow chart - Phthalate

#### [Test method: IEC 62321-8]



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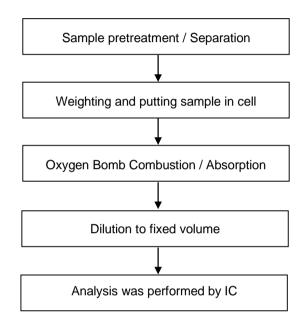
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#### Analytical flow chart - Halogen



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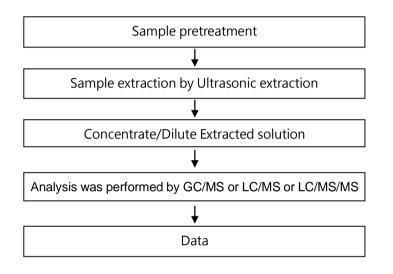
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#### Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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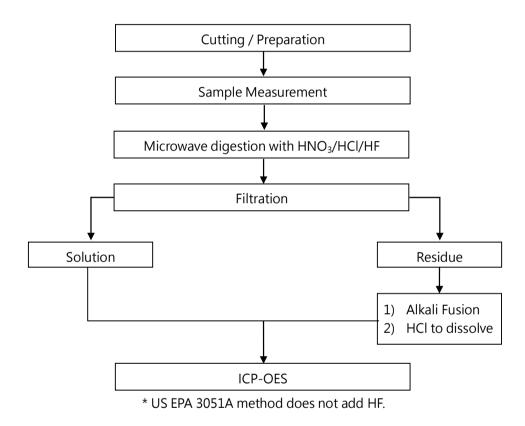
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#### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method: US EPA 3051A、US EPA 3052】



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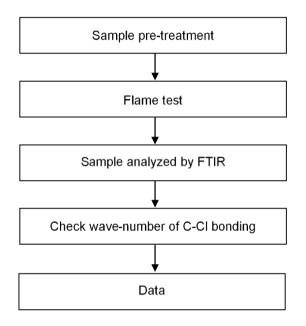
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#### Analysis flow chart - PVC



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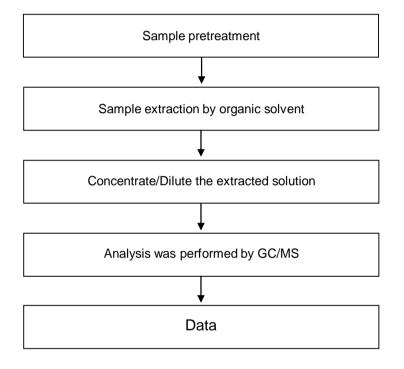
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#### Analytical flow chart

\* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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# Sample pretreatment Sample extraction by organic solvent Derived by Sodium tetraethylborate Concentrate/Dilute Extracted solution Analysis was performed by GC/FPD Data

Analytical flow chart - Organic-Tin

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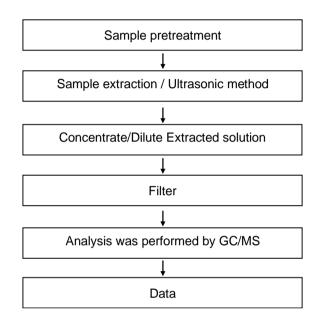
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#### Analytical flow chart - HBCDD



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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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