

Test Report No.: ETR23702932 Date: 01-Aug-2023 Page: 1 of 16

SHIN-ETSU CHEMICAL CO., LTD.

MARUNOUCHI EIRAKU BLDG., 4-1, MARUNOUCHI 1-CHOME, CHIYODA-KU, TOKYO 100-0005, JAPAN

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : SHIN-ETSU CHEMICAL CO., LTD.

Sample Name : SILICONE GREASE

Style/Item No. : CURED MATERIALS X-23-7772-4

Sample Receiving Date : 14-Jul-2023

Testing Period : 14-Jul-2023 to 01-Aug-2023

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).

(2) Please refer to next pages for the other item(s).

Test Results: Please refer to following pages.

Troy Chang / Department Malager Signed for and on behalf of Alwah SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: F408094

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Test Part Description

No.1 : GRAY PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
Lead (Pb)	analysis was performed by ICP-OES.	mg/kg	2	n.d.
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Hexavalent Chromium Cr(VI)	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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Test Item(s)	Method	Unit	MDL	Result
				No.1
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Diisobutyl phthalate (DIBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
PFOS and its salts (CAS No.: 1763-23-1	With reference to CEN/TS 15968:	mg/kg	0.01	n.d.
and its salts)	2010, analysis was performed by			
	LC/MS/MS.			
PFOA and its salts (CAS No.: 335-67-1	With reference to CEN/TS 15968:	mg/kg	0.01	n.d.
and its salts)	2010, analysis was performed by			
	LC/MS/MS.			
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C:	mg/kg	0.5	n.d.
	2007, analysis was performed by	J, J		
	GC/MS.			
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C:	mg/kg	5	n.d.
	2007, analysis was performed by	3, 3		
	GC/MS.			
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C:	mg/kg	0.5	n.d.
	2007, analysis was performed by	9,9	0.0	
	GC/MS.			
Short Chain Chlorinated Paraffins(C10-	With reference to ISO 18219-1: 2021,	mg/kg	50	n.d.
C13) (SCCP) (CAS No.: 85535-84-8)	analysis was performed by GC/MS.	1119/19	30	11.0.

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Triphenyl tin (TPT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
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).			
Dibutyl tin (DBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.	3 3		
Dioctyl tin (DOT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.	3 3		
Hexabromocyclododecane (HBCDD)	With reference to IEC 62321: 2008,	mg/kg	5	n.d.
and all major diastereoisomers	analysis was performed by GC/MS.	3 3		
identified (α- HBCDD, β- HBCDD, γ-				
HBCDD) (CAS No.: 25637-99-4, 3194-				
55-6 (134237-51-7, 134237-50-6,				
134237-52-8))				
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021,	**	_	Negative
	analysis was performed by FT-IR and			
	Flame Test.			
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.	3 3		
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			

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Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 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.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.

8. PFOA and its salts including:

CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

9. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	Α	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table: https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

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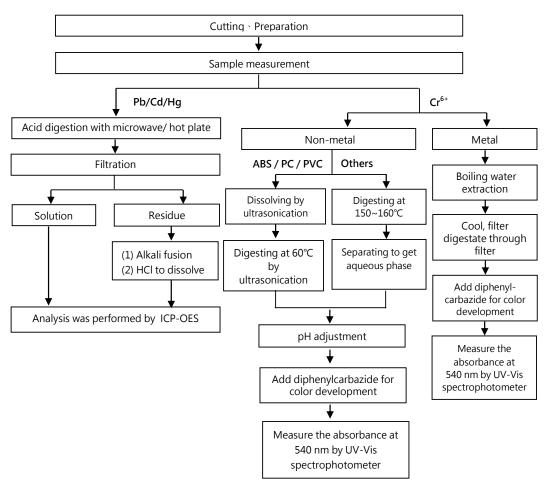
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Analytical flow chart of heavy metal

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

(Cr⁶⁺ test method excluded)



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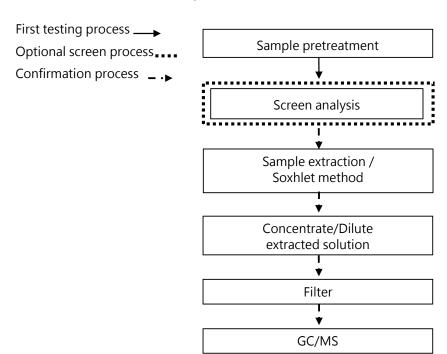


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Analytical flow chart - PBBs / PBDEs



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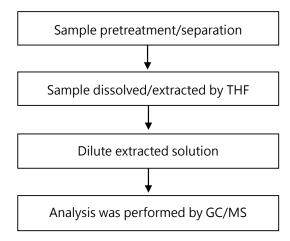


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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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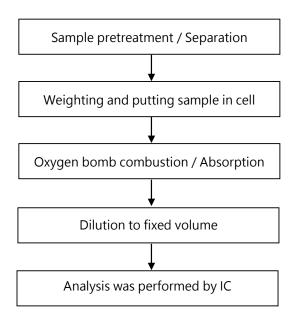
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Analytical flow chart - Halogen



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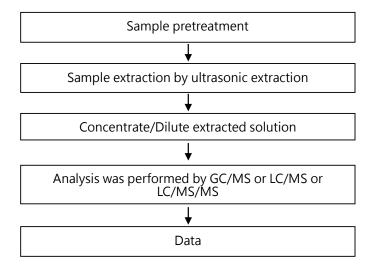


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Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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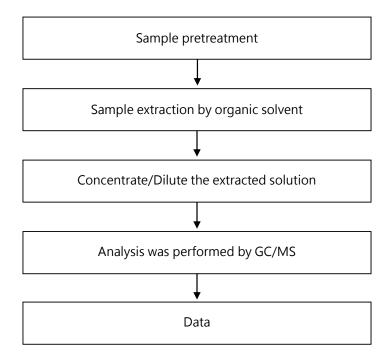


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Analytical flow chart

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



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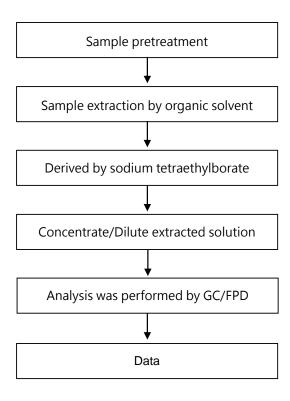
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Analytical flow chart - Organic-Tin



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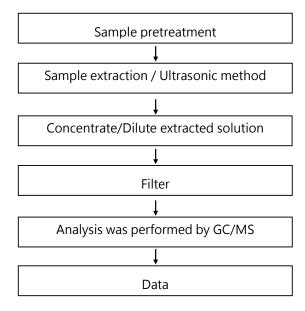
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Analytical flow chart - HBCDD



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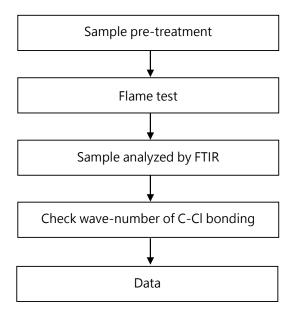
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Analysis flow chart - PVC



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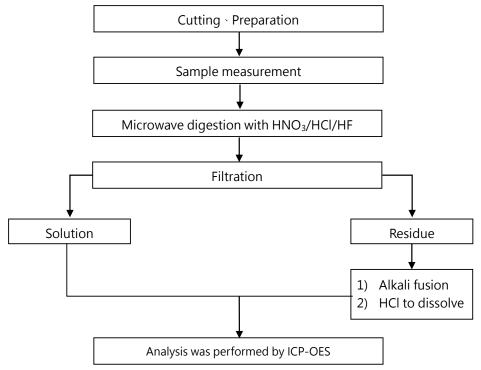
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Analytical flow chart of elements (Heavy metal included)

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

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



* US EPA 3051A method does not add HF.

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

ETR23702932



** End of Report **

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