



# Test Report

No.: ETR21800997

Date: 12-Aug-2021

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TAI CHANG COLORFUL PRESS INDUSTRIAL CO., LTD.  
NO. 138-1, TONGTIAN ROAD, DAJIA DIST., TAICHUNG CITY 437, TAIWAN

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

Sample Submitted By : TAI CHANG COLORFUL PRESS INDUSTRIAL CO., LTD.  
Sample Name : TWG-D-18771-2

=====  
Sample Receiving Date : 05-Aug-2021  
Testing Period : 05-Aug-2021 to 12-Aug-2021

Test Requested : As specified by client, the sample(s) was/were tested with reference to EU POPs Regulation 2019/1021. Please refer to result table for testing item(s).

Test Results : Please refer to following pages.

Conclusion : Based on the performed tests on submitted sample(s), the test result(s) comply with the limits as set by POPs regulation (EU) 2019/1021.

  
Troy Chang, Manager, Technical  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: B2BCD445

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## Test Part Description

No.1 : BROWN/WHITE FILM

## Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Tetrabromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	10
Pentabromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	10
Hexabromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	10
Heptabromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	10
Decabromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	10
Hexabromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	Prohibited
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.	100
Hexachlorobutadiene (CAS No.: 87-68-3)	With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.	mg/kg	1	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	Prohibited
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	50
Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)	With reference to ISO 18219: 2015, analysis was performed by GC/MS.	mg/kg	50	n.d.	(*1)
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	(*2)
N-ethylperfluoro-1-octanesulfonamide (EtFOSA) (CAS No.: 4151-50-2)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	(*2)
N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA) (CAS No.: 31506-32-8)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	(*2)
N-Ethyl-Perfluorooctanesulfonamidoethanol (N-Et-FOSE alcohol) (CAS No.: 1691-99-2)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	(*2)
N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol) (CAS No.: 24448-09-7)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	(*2)
Perfluorooctanesulfonamide (PFOSA) (CAS No.: 754-91-6)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	(*2)
PFOA and its salts (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	0.025
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) (CAS No.: 39108-34-4)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	1

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Methyl perfluorooctanoate (Me-PFOA) (CAS No.: 376-27-2)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	1
Ethyl perfluorooctanoate (Et-PFOA) (CAS No.: 3108-24-5)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	1
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No.: 678-39-7)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	1
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) (CAS No.: 27905-45-9)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	1
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) (CAS No.: 1996-88-9)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	1
Perfluoro-1-iodooctane (PFOI) (CAS No.: 507-63-1)	With reference to CEN/TS 15968: 2010, analysis was performed by GC/MS.	mg/kg	0.1	n.d.	1
Pentachlorophenol and its salts (CAS No.: 87-86-5 and its salts)	With reference to US EPA 8041A: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	5
Hexachlorobenzene (CAS No.: 118-74-1)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	Prohibited
Endrin (CAS No.: 72-20-8)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Heptachlor (CAS No.: 76-44-8 ;1024-57-3)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Mirex (CAS No.: 2385-85-5)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Aldrin (CAS No.: 309-00-2)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Dieldrin (CAS No.: 60-57-1)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Chlordane (CAS No.: 57-74-9)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Dichloro-diphenyl-trichloro ethane (DDT) (CAS No.: 50-29-3)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Toxaphene (CAS No.: 8001-35-2)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Pentachlorobenzene (CAS No.: 608-93-5)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Kepone (CAS No.: 143-50-0)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Hexachlorocyclohexanes, including lindane (CAS No.: 58-89-9; 319-84-6; 319-85-7; 608-73-1)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Endosulfan (CAS No.: 115-29-7, 959-98-8, 33213-65-9)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited
Dicofol (CAS No.: 115-32-2)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	1	n.d.	Prohibited

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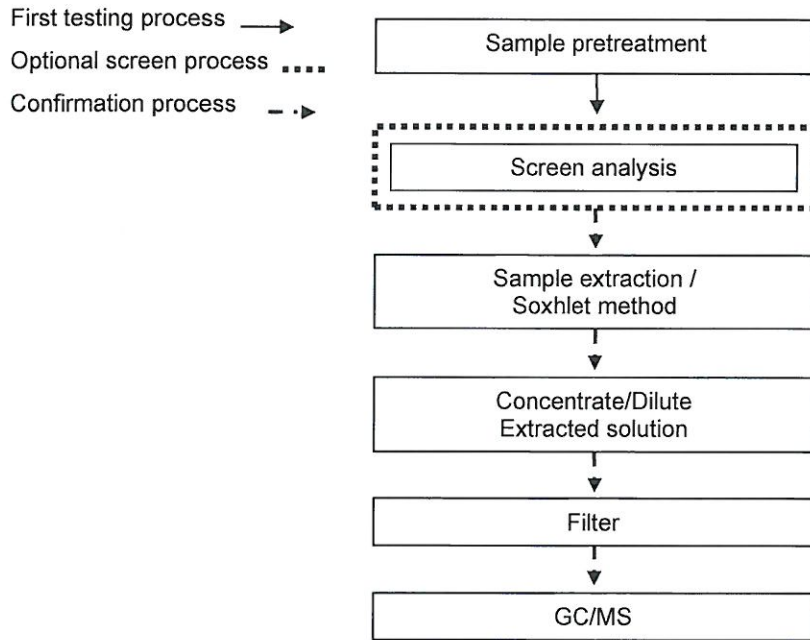
## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated
5. 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.
6. PFOA and its salts including :  
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
7. (\*1) : Substance / Preparation: 10000 ppm; Article: 1500 ppm
8. (\*2) : Substance / Preparation: 10 ppm ;  
Article / Part / Semi-finished product: 1000 ppm
9. The statement of compliance conformity is based on comparison of testing results and limits.

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### Analytical flow chart – PBBs / PBDEs



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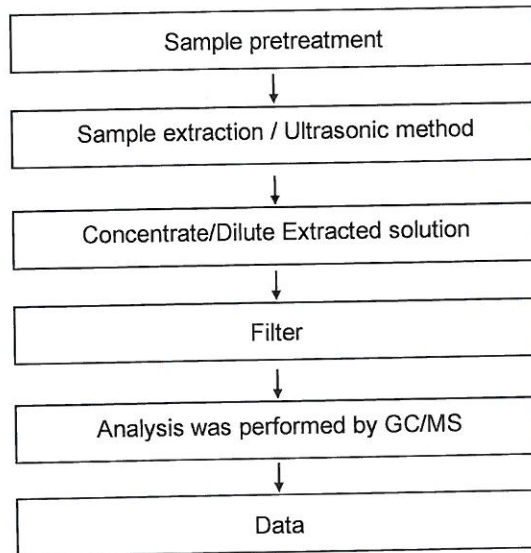
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## Analytical flow chart - HBCDD



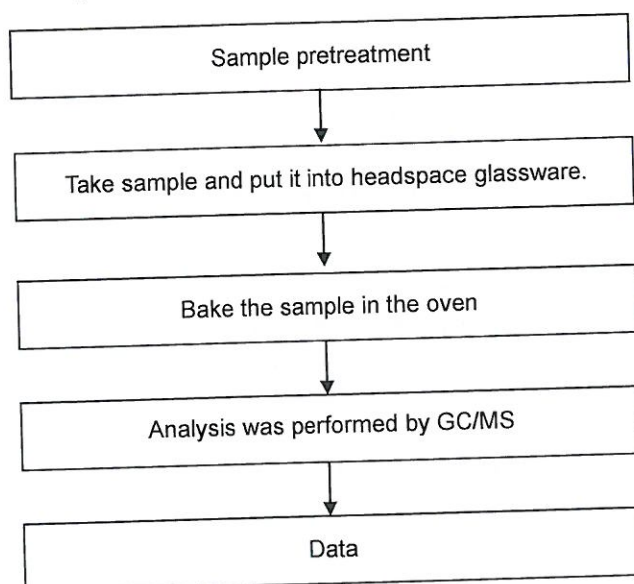
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### Analytical flow chart of volatile organic compounds (VOCs)

【Reference method : US EPA 5021A】



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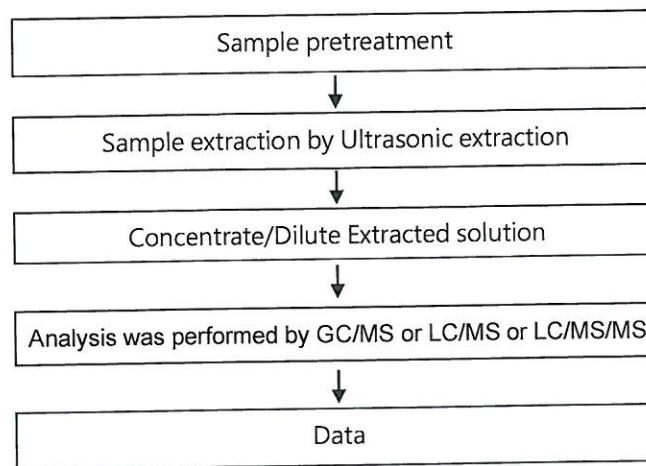
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## Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)

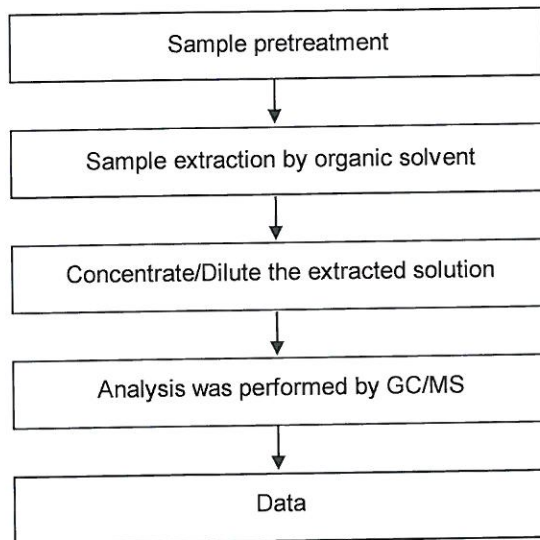


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### Analytical flow chart

\*Apply to: PCBs, PCNs, PCTs, Mirex



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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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