

## Test Report

No. SHAEC2128122307

Date: 31 Dec 2021

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SUZHOU OMA Y OPTICAL MATERIALS CO.,LTD

NO.158-30,Huashan road,SND,Suzhou,China

The following sample(s) was/were submitted and identified on behalf of the clients as : polycarbonate films and sheets

SGS Job No. : SP21-039984 - SUZ  
Model No. : G11  
Client Ref. Information : G11,LSC11, G11B, SB11, SG11, FG11, G11-R, G11-BU, G11W, FG(a), LSC(a), EHF(a),OMR(a)-UV, C71-A, C71-B, C71-C, ST(a), OM(a)-UV,G(a)W,G11B, IMD11, LCD11, LCD41, LCD61, LCD11B, T11, UV11, SR11, LC11, LC21, LC32, LC42, LC21B, LC11B, LC32B, LC21W, LC32W, LC42B,LC42W,G42, G42W,G51, G42F, G21F, G32, G32F, G52, G21, G41, G41F, G21B, G42B, G61, G71, IMD42, IMD41, LD21, LD21W, LD32, LD42, LD42W, LD52W, LD41W, LD21W-F, LD42W-F, T41, T32F, SR42, SR41, SR21.OM(a), BLC(a)(b), GAP(a),G11-N.

(a) -May be followed by a two digit suffix [00-99] inclusive,indicating textures of both sides of the film/sheet,(b)-May be 001-999 representing different client designations.

Date of Sample Received : 24 Dec 2021  
Testing Period : 24 Dec 2021 - 31 Dec 2021  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Lan

Jenny Lan  
Approved Signatory

scan to see the report



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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-281223.001	Colorless Transparent sheet

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Element(s)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	001
Antimony (Sb)	mg/kg	10	ND

### Organic-tin compounds

Test Method : With reference to ISO 17353: 2004, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Dibutyl tin (DBT)	mg/kg	0.02	ND

### Hexabromocyclododecane (HBCDD/HBCD)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.



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Testing Center - China

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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD/HBCD)	25637-99-4/ 3194-55-6	mg/kg	10	ND

## Red Phosphorus

Test Method : SGS in house method(SHTC- CHEM- SOP -342-T), Analysis was performed by ICP-OES and Pyrolysis-GC/MS

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Red Phosphorus	mg/kg	500	ND

### Notes :

For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

## Polyvinyl chloride (PVC)

Test Method : In-house method (SHTC-CHEM-SOP-115-T), analysis was performed by FTIR/HATR.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Polyvinyl chloride (PVC)	9002-86-2	-	-	Negative

### Notes :

(1) Negative=Undetectable,Positive=Detectable

## Commission Regulation (EU) No 412/2012 and Entry 61 of Annex XVII of REACH Regulation (EC) No 1907/2006 - Dimethyl fumarate(DMF)

Test Method : Solvent extraction, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND



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**Phthalates Content**

Test Method : With reference to EN 14372:2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
Dimethyl Phthalate (DMP)	131-11-3	%	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	%	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%	0.003	ND
Diisooctyl Phthalate (DiOP)	27554-26-3	%	0.01	ND
Dipropyl Phthalate (DPrP)	131-16-8	%	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%	0.003	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.003	ND
Diisoheptyl phthalate (DIHP)	71888-89-6	%	0.01	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUPE)	68515-42-4	%	0.01	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	%	0.01	ND

**Pentachlorophenol (PCP)**

Test Method : With reference to LFGB § 64 BVL B 82.02.08:2001, analysis was performed by GC-ECD or GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentachlorophenol (PCP)	mg/kg	0.5	ND



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### Perfluorooctanoic Acid (PFOA)

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic Acid (PFOA) and its salts+	-	mg/kg	10	ND

Notes :

(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);



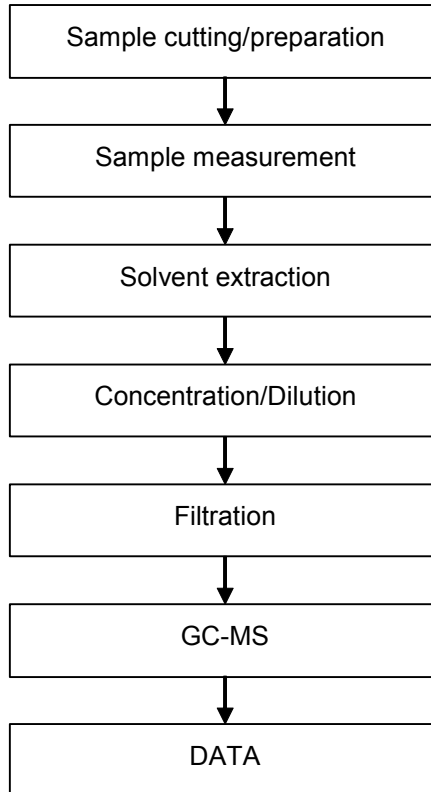
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**Phthalates Testing Flow Chart**

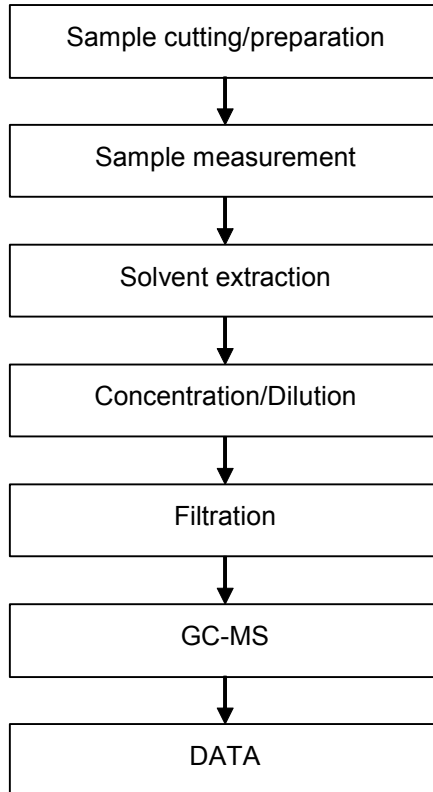


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**HBCDD Testing Flow Chart**

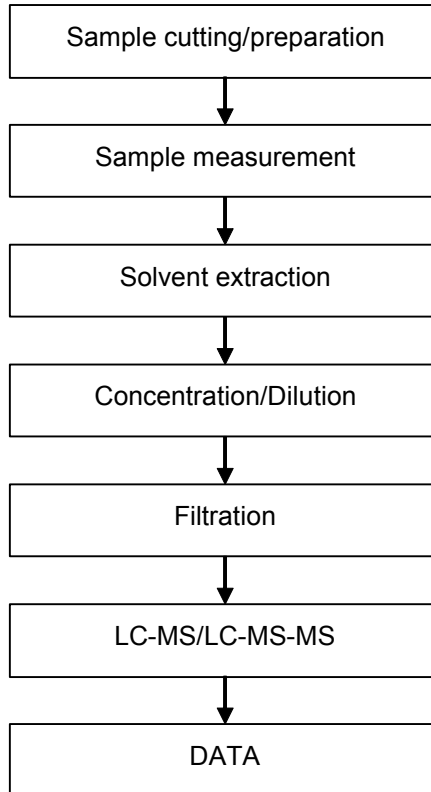


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### PFASs/ PFOS/PFOA Testing Flow Chart



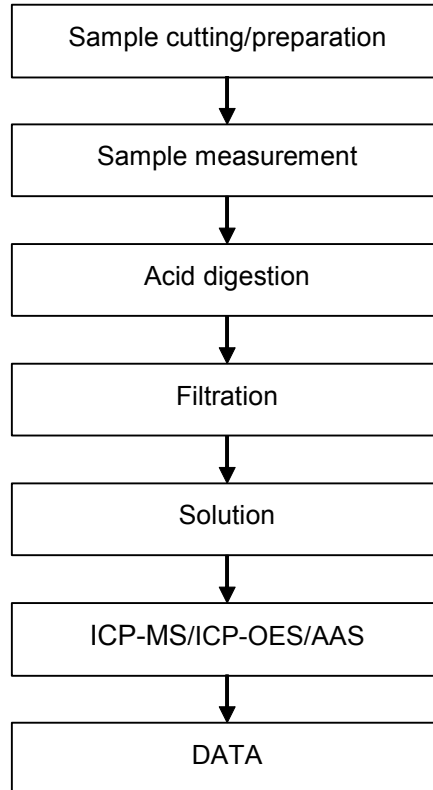
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Elements Testing Flow Chart

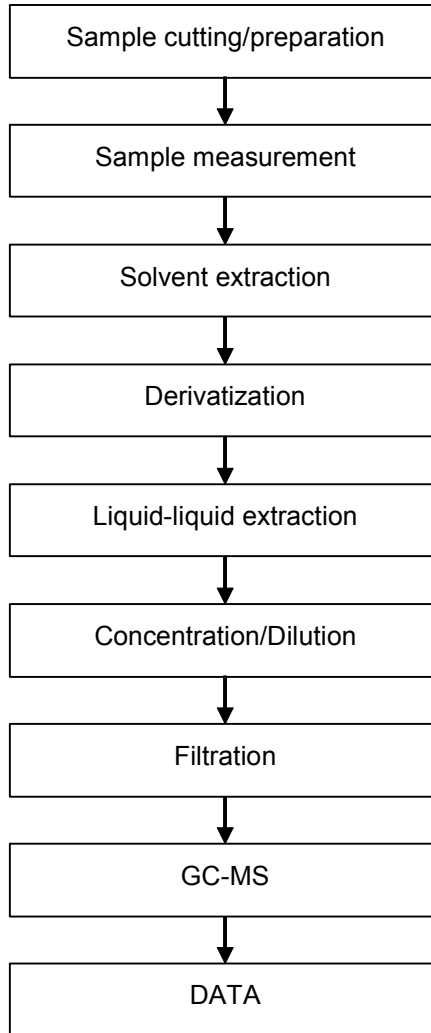


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Organotin Testing Flow Chart

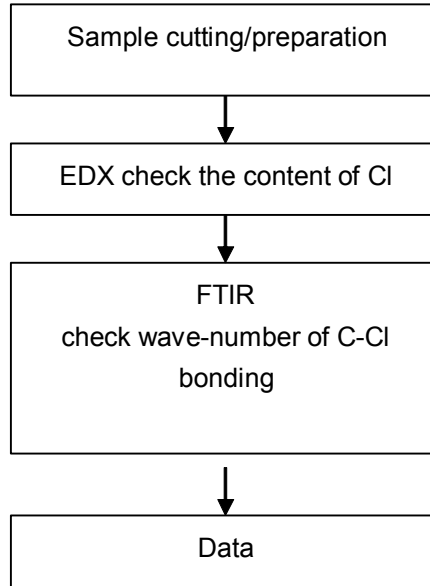


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### PVC Testing Flow Chart

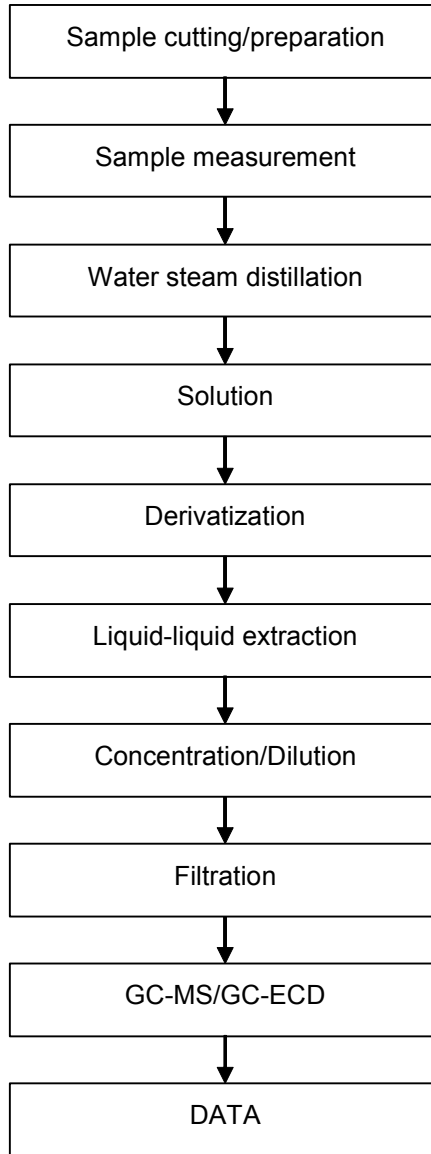


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### Chlorinated phenol Testing Flow Chart

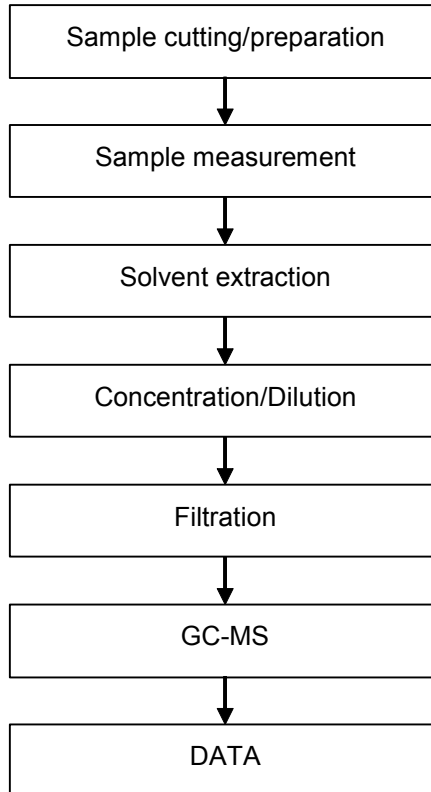


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**DMF (Dimethyl fumarate) Testing Flow Chart**



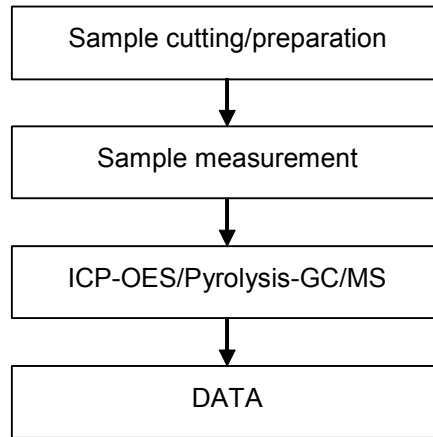
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### Red Phosphorus Testing Flow Chart



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