

Test Report

No.: SHAEC23009445301

Date: Jul 10, 2023

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Client Name: Jiangsu JieJie Microelectronics Co.,Ltd.

Client Address: 3000 Qiantangjiang Road, Economic Development Zone, Qidong , Jiangsu , China

Sample Name: TO-220A

Buyer: Midea

The above sample(s) and information were provided by the client.

SGS Job No.: SHP23-006409

Sample Receiving Date: Jul 04, 2023

Testing Period: Jul 04, 2023 ~ Jul 10, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

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

Test Requirement	Conclusion
Entry 1 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Polychlorinated Terphenyls (PCTs)	Pass
Entry 6 of Regulation (EU) 2016/1005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Asbestos	Pass
Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds	Pass
Flame Retardants	See Results

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

Tom Ni

Tom Ni
Approved Signatory

scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0094453-0001.C001	Black solid

Remarks:

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

Entry 1 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Polychlorinated Terphenyls (PCTs)

Test Method: With reference to US EPA 8082A: 2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Aroclor 5432	63496-31-1	50	mg/kg	0.5	ND
Aroclor 5442	12642-23-8	50	mg/kg	0.5	ND
Aroclor 5460	11126-42-4	50	mg/kg	0.5	ND
Conclusion					Pass

Entry 6 of Regulation (EU) 2016/1005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Asbestos

Test Method: With reference to NIOSH 9000:2015 and ISO 22262-1:2012, analysis was performed by XRD/PLM.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Actinolite	77536-66-4	Prohibited	%(m/m)	0.1	Negative
Amosite	12172-73-5	Prohibited	%(m/m)	0.1	Negative
Anthophyllite	77536-67-5	Prohibited	%(m/m)	0.1	Negative
Chrysotile	12001-29-5 /132207-32-0	Prohibited	%(m/m)	0.1	Negative
Crocidolite	12001-28-4	Prohibited	%(m/m)	0.1	Negative
Tremolite	77536-68-6	Prohibited	%(m/m)	0.1	Negative
Conclusion					Pass

Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.



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Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds

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

Test Item(s)	Limit	Unit(s)	MDL	A1
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND
Conclusion				Pass

Flame Retardants

Test Method: With reference to US EPA 3550C:2007 and US EPA 8270D:2014, analysis was performed by GC-MS/HPLC-DAD-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Tris(1,3-dichloro-2-propyl)Phosphate(TDCPP)	13674-87-8	1000	mg/kg	5	ND
Tris(2-chloroethyl)Phosphate(TCEP)	115-96-8	1000	mg/kg	5	ND
Tris(1-chloro-2-propyl)Phosphate(TCPP)	13674-84-5	1000	mg/kg	5	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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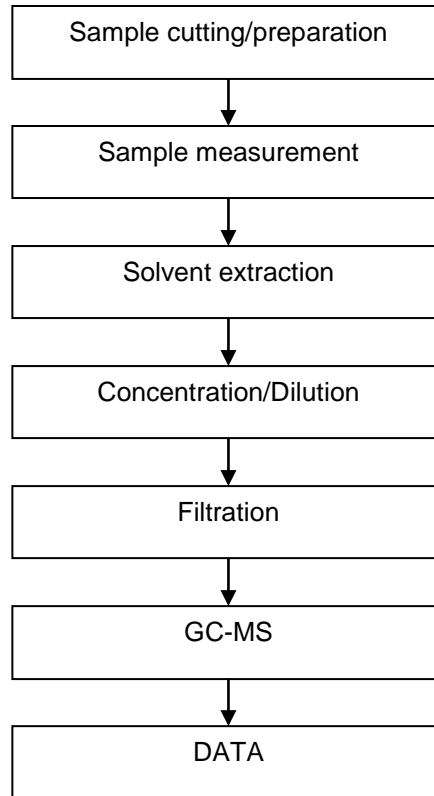
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PCT Testing Flow Chart



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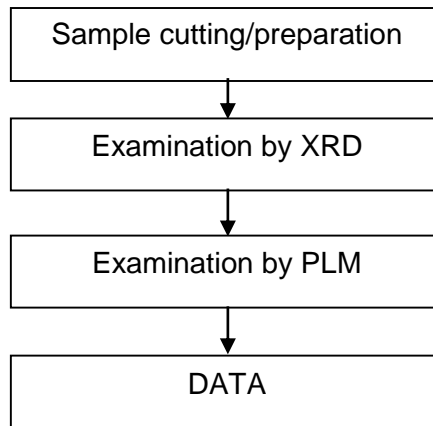
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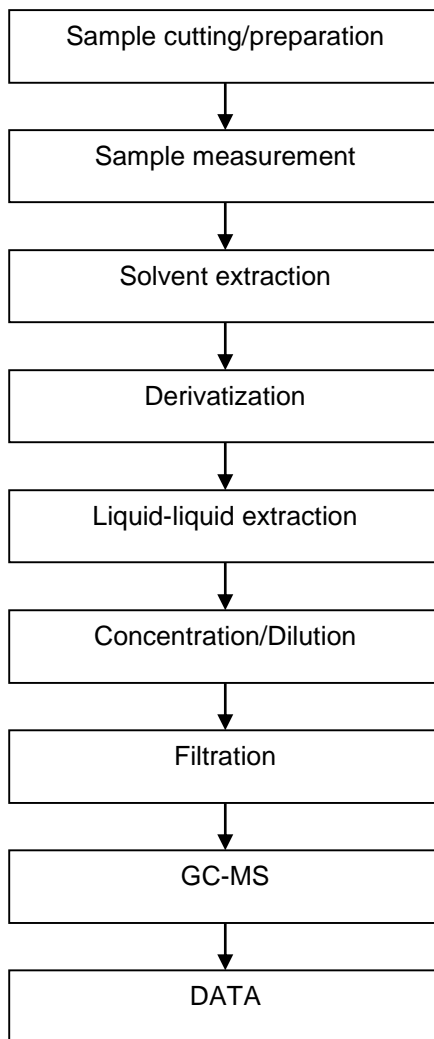
Asbestos Testing Flow Chart



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Organotin Testing Flow Chart



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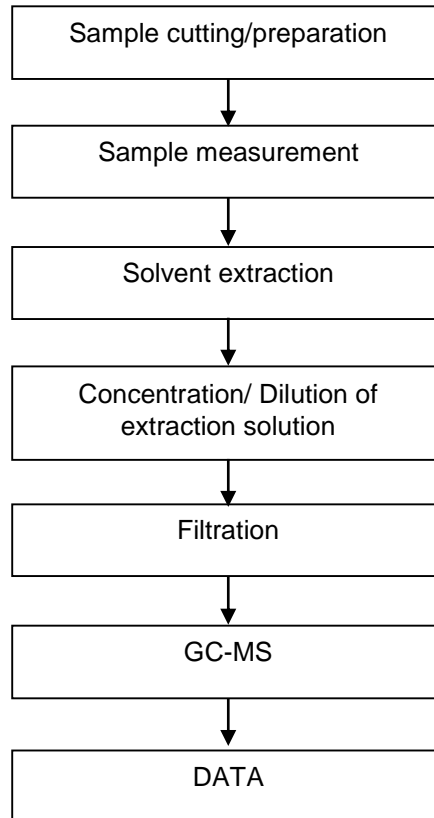
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Flame retardant Testing Flow Chart



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Sample Photo:



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