

# Test Report No.: CANEC24028513011 Date: Dec 27, 2024

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Client Name: CHONGQING PINGWEI ENTERPRISE CO., LTD

Client Address: INDUSTRIAL PAPK, LIANGPING COUNTY, CHONGQING

Sample Name:	Semiconductor Devices
Model No.:	TO-263
Client Ref. Information:	See attachment
Production Date:	Production in December 2024
The above sample(s) and in	formation were provided by the client.

SGS Job No.:	CQP24-013620
Sample Receiving Date:	Dec 17, 2024
Testing Period:	Dec 17, 2024 ~ Dec 26, 2024
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
Tetrabromobisphenol A (TBBP-A)	See Results
Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds	Pass
Dimethyl fumarate (DMF)	See Results
Alkylphenol Ethoxylates (APEO) and Alkylphenols(AP)	See Results
Asbestos	See Results
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Element(s)	See Results
Red Phosphorus	See Results

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zuguan

Zm Guan Approved Signatory





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# **Test Report**

#### No.: CANEC24028513011

Date: Dec 27, 2024

#### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN24-0285130-0001.C002	Black plastic shell

Remarks:

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

#### Tetrabromobisphenol A (TBBP-A)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Tetrabromobisphenol A(TBBP-A)	79-94-7	mg/kg	5	ND

# Entry 20 of Regulation (EU) 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	A2
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
$\Sigma$ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND
DibutyItin(DBT) by Weight of Tin	0.1	%	0.01	ND
Dioctyltin(DOT) by Weight of Tin	0.1	%	0.01	ND
Conclusion	Pass			

#### **Dimethyl fumarate (DMF)**

**Test Method:** SGS In house method, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Dimethyl Fumarate (DMF)	624-49-7	mg/kg	0.1	ND

#### Alkylphenol Ethoxylates (APEO) and Alkylphenols(AP)

**Test Method:** SGS In-house method (GZTC CHEM-TOP-063-01, with reference to EPA 3550C:2007), analysis was performed by GC-MS/LC-MS.



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Test Item(s)		Unit(s)	MDL	A2
Nonylphenol ethox	ylates(NPEOs)	mg/kg	10	ND
Octylphenol ethoxy	lates(OPEOs)	mg/kg	10	ND
Nonylphenol(NP)		mg/kg	3	ND
Octylphenol(OP)		mg/kg	3	ND
Sum of NPEOs and	d OPEOs	mg/kg	-	ND
Sum of NP and OP OPEOs	and NPEOs and	mg/kg	-	ND
Sum of NP and OP		mg/kg	-	ND

#### <u>Asbestos</u>

Test Method: With reference to NIOSH 9000:2015 / NIOSH 9002:1994, analysis was performed by XRD / PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative
Actinolite	77536-66-4	%(m/m)	0.1	Negative

#### Notes:

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

#### AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE),				
Pyrene(PYR), Anthracene(ANT),	-	mg/kg	-	ND
Fluoranthene(FLT)				
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND



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-				-
Test Item(s)	CAS No.	Unit(s)	MDL	A2
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

Notes:

#### AfPS (German commission for Product Safety) : PAHs requirements

	Category 1	Catego	ory 2	Catego	ry 3
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s)	Materials not co category 1, com term contact (m or short-term re contact <sup>c</sup> with ski intended or fore	ing into long- ore than 30s) petitive in during the	Materials cover by category 1 n category 2, com short-term conta 30s) with skin d intended or fore use.	or by hing into act (up to uring the
Parameter	during the intended use -in toys according to Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracen e (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1



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Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	<2	2	< 10	)
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

#### Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

#### Element(s)

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

Test Item(s)	Unit(s)	MDL	A2
Beryllium(Be)	mg/kg	5	ND
Antimony(Sb)	mg/kg	10	ND
Antimony Trioxide(Sb <sub>2</sub> O <sub>3</sub> ) ◆	mg/kg	12	ND

#### Notes:

♦ Calculated concentration of Sb<sub>2</sub>O<sub>3</sub> is based on the identified Sb.

#### **Red Phosphorus**

**Test Method:** SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Red Phosphorus	7723-14-0	mg/kg	500	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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**TBBP-A Testing Flow Chart** 





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#### **Organotin Testing Flow Chart**





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## DMF (Dimethyl fumarate) Testing Flow Chart





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## NP / OP / NPEOs / OPEOs Testing Flow Chart





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## **PAHs Testing Flow Chart**





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## **Elements Testing Flow Chart**





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# **Test Report**

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ATTACHMENTS

**Red phosphorus Testing Flow Chart** 





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Attachment: Rectifier Bridge, Mosfet, Photovoltaic module, SOD-923, SOD-723, SC-89, SOT-416, SOT-23, SOT-323, SOT-252, SOT-223, A-405, DO-41(DO-204AL), DO-15(DO-204AC), DO-27 (DO-201AD), DO-27 (DO-201AE), HVM, HV, R-1, R-3, R-6, TO-220AC/AB, WOB, RB-1, MBS, BR-15, RC-2, BRW, DB, DBS, GBJ, GBL, GBP, GBU, KBPC, KBP, KBU, KBL, MB, MM, RS, SMA(DO-214AC), SMB(DO-214AA), SMC(DO-214AB), SMF, PS-277, PS-277A, PS-277B, SOT-123, SOT-523, SOD-123, SOD-323, SOD-523, TO-92, TO-126, SOD-126, ABS, KBJ, LL-34, DO-35, DO-41, LL-41, SOD-123FL, TBF, TO-251, TO-252, TO-262, TO-263, ABM, MBF, SMBF, D3K, SMFL, TMBF, SOD-123HE, SOP-8, ABF, TO-220CB, TO-220MF, TO-247, DFN, SMFT, TO-220FS, TO-262CB, TO-263CB, SOD-123FT, TO-277, HGBU, HGBJ, RTMBF, TBM, DO-218AB, TO-3P, TOLL-1, TOLL-2, SOT-563, TO-220TF, TO-220NF, TO-220AD, TO-263-7L, TO-263-7H, DFN5\*6Clip, DFN1006-2L, DFN1006-3L, DFN2\*2-6L, PDFN5\*6-8L, SMD-0.1 Two feet, SMD-0.5 Field-effect transistor, SOT-23-3L, SOT-23-6L, SOT-363, SOT-89-3L, T0-252-2L, T0-258A, TO-247SM, BW88, XND38, TO-3PF, TOLL, STOLL, KBJL, GBJL, TCOP10, TO-227, TOLT, QDPAK, TO-220DF-3L, TO-220AD-2L, SOP-32, TO-220AB-3L, TO-220AC (TO-220AB-2L), TO-220CB-3L, ITO-220AB (TO-220F-3L), ITO-220AC (TO-220F-2L), TO-251-3L, TO-252-2L, TO-263-2L, TO-262-3L, TO-220MF-3L, TO-251K-3L, TO-220SF, TO-263CB-2L, TO-220NF-3L, TO-220TF-3L, TO-247-2L, TO-247-3L, TO-247-4L, DFN5\*6, TO-263FB-3L, TO-220MF-2L, TO-263AD-2L, TO-263-5L, TO-220DF, PDFN3\*3-C, TO-220FCB-3L, TO-220RB-3L, TO-220DF, TO-220SD, TO-251K, TO-263FB, TO-220AD, SOP-8, SOD-123, SOD-323, SOD-523, SOD-323F, SOT-23, SOT-23-3L, SOT-23-6L, SOT-323, SOT-563, DFN3\*3, DFN8\*8, DFN1006-2L, DFN1006-3L, DFN5\*6, SOD-323GW, SOT-523, SOT-723, SOT-89, SOT-223, SOT-363, DFN2\*2-6L, DPDFN3\*3, SOT-89-3L, SOP-32L, 0603



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