

## Test Report

No.: CANEC25015059707

Date: Jul 02, 2025

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Client Name: SHENZHEN YONGYUAN MICROELECTRONICS TECHNOLOGY CO.,LTD

Client Address: C2 BUILDING RUIMING INDUSTRIAL PARK, NO.44 HEXIU WEST ROAD,  
ZHANCHENG, FUHAI STREET,BAO'AN DIST, SHENZHEN

Sample Name: MOS

Model No.: TO-252

Client Ref. Information: TO252-3L、TO252-4L、TO263-3L、TO251S-3L、TO220F-3L、  
TO220-3L、TO247-3L、PDFN3\*3-8L、PDFN5\*6-8L、TO263-6L、  
TOLLA-8L、STOLL-5L、TO264-3L

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

SGS Job No.: SZP25-031683

Sample Receiving Date: Jun 24, 2025

Testing Period: Jun 24, 2025 ~ Jul 02, 2025

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

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

**Arsene Ye**

Arsene Ye  
Approved Signatory

Scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

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**Test Result(s):**

**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN25-0150597-0001.C002	Black plastic with printing

**Remarks:**

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

**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.	Limit	Unit(s)	MDL	A2
Benzo(a)pyrene (BaP)	50-32-8	0.5	mg/kg	0.1	ND
Benzo(e)pyrene (BeP)	192-97-2	0.5	mg/kg	0.1	ND
Benzo(a)anthracene (BaA)	56-55-3	0.5	mg/kg	0.1	ND
Benzo(b)fluoranthene (BbF)	205-99-2	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene (BjF)	205-82-3	0.5	mg/kg	0.1	ND
Benzo(k)fluoranthene (BkF)	207-08-9	0.5	mg/kg	0.1	ND
Chrysene (CHR)	218-01-9	0.5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	0.5	mg/kg	0.1	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	0.5	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	0.5	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), Fluoranthene(FLT)	-	10	mg/kg	-	ND
Naphthalene (NAP)	91-20-3	2	mg/kg	0.1	ND
Sum of 15 PAHs	-	10	mg/kg	-	ND
Material Category	-	-	-	-	2
<b>Conclusion</b>					<b>Pass</b>

**Notes:**

As per client information, the tested sample is not children product which is under the directive of German ProdSG.

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

Parameter	Category 1	Category 2	Category 3
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	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) 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.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		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)anthracene (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
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		< 10	



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Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50
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**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.

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.



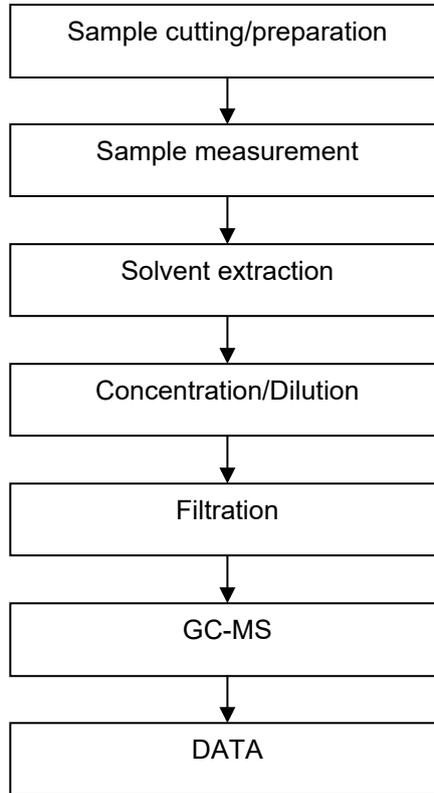
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### PAHs Testing Flow Chart



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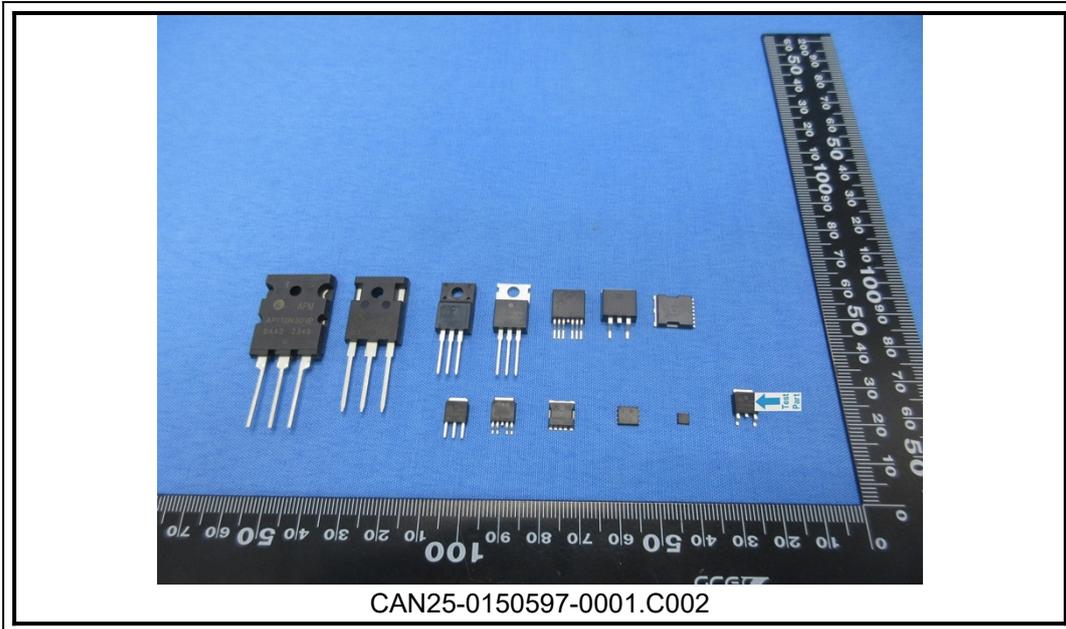
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### Sample Photo:



SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*



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