

## Test Report

No.: CANEC25000162203

Date: Jan 23, 2025

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Client Name: BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED

Client Address: NO.1 HE SHI ROAD,HUANG NI TANG,CHANGPING TOWN,DONGGUAN  
CITR,GUANGDONG PROVINCE

Sample Name: PBT Housing Orange

Client Ref. Information: Please see attachment

Material: PBT

Colour: Orange

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

SGS Job No.: SZP25-000257

Sample Receiving Date: Jan 03, 2025

Testing Period: Jan 03, 2025 ~ Jan 10, 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
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

Allie Chen

Allie Chen  
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	A3	CAN25-0001622-0001.C003	Orange plastic

#### Remarks:

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Guangzhou Branch: Standards Technical Laboratory

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Test Item(s)	Limit	Unit(s)	MDL	A3
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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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### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



### Hexavalent Chromium (Cr(VI)) Testing Flow Chart





## Test Report

### ATTACHMENTS

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### PBB/PBDE/Phthalates Testing Flow Chart



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Attachment:

.031" (0.8 mm) Pitch Wafer/housing/.039" (1.0 mm) Pitch Wafer/housing/  
 .047" (1.2 mm) Pitch Wafer/housing/.049" (1.25 mm) Pitch Wafer/housing/  
 .050" (1.27 mm) Pitch Wafer/housing/.059" (1.50 mm) Pitch Wafer/housing/  
 .070" (1.8 mm) Pitch Wafer/housing/.079" (2.00 mm) Pitch Wafer/housing/  
 .085 (2.16mm) Pitch Wafer/housing/.087" (2.20 mm) Pitch Wafer/housing/  
 .098" (2.50 mm) Pitch Wafer/housing/.100" (2.54 mm) Pitch Wafer/housing/  
 .118" (3.00 mm) Pitch Wafer/housing/.138" (3.50 mm) Pitch Wafer/housing/  
 0.15"(3.81mm)Pitch Wafer/housing/.156" (3.96 mm) Pitch Wafer/housing/  
 .157" (4.00 mm) Pitch Wafer/housing/.162" (4.14 mm) Pitch Wafer/housing/  
 .165" (4.20 mm) Pitch Wafer/housing/.175"(4.45mm)Pitch Wafer/housing/  
 .197" (5.00 mm) Pitch Wafer/housing/.200" (5.08 mm) Pitch Wafer/housing/  
 .224" (5.70 mm) Pitch Wafer/housing/.240" (6.10 mm)Pitch Wafer/housing/  
 .246" (6.20 mm) Pitch Wafer/housing/.250" (6.35 mm) Pitch Wafer/housing/  
 .263" (6.70 mm) Pitch Wafer/housing/.300" (7.50 mm) Pitch Wafer/housing/  
 .350" (8.90 mm) Pitch Wafer/housing/.394" (10.0 mm) Pitch Wafer/  
 housing.031" (0.80 mm)Pitch Female header/.039" (1.00 mm)Pitch Female header/  
 .005" (1.27mm)Pitch Female header/.079" (2.00mm)Pitch Female header/  
 .100" (2.54mm)Pitch Female header/.156" (3.96mm)Pitch Female header/  
 .031" (0.80mm)Pitch Pin header/.039" (1.00mm) Pitch Pin header/  
 .049" (1.25mm) Pitch Pin header/.005" (1.27mm) Pitch Pin header/  
 .059" (1.50mm) pitch pin header/.079" (2.00mm) pitch Pin header/  
 .869" (2.20mm) pitch Pin header/.098" (2.50mm) Pitch Pin header/  
 .100" (2.54 mm)Pitch Pin header/.137" (3.50mm) Pitch Pin header/  
 .156" (3.96mm) Pitch Pin header/.165" (4.2mm) Pitch Pin header/  
 .200" (5.08mm)Pitch Pin header/Press-Fit connectors/.039" (1.00mm) Pitch Box Header/  
 .050" (1.27mm)Pitch Box Header/.079" (2.00mm)Pitch Box Header/  
 .100" (2.54mm)Pitch Box Header/.050" (1.27mm)Pitch Male IDC\ DIP Type/  
 .100" (2.54mm)Pitch Male IDC\ DIP Type/.156" (3.96mm)Pitch Male IDC\ DIP Type/  
 .012" (0.30mm)Pitch FFC/FPC/.020" (0.50mm)Pitch FFC/FPC/.031" (0.80mm)Pitch FFC/FPC/  
 .039" (1.00mm)Pitch FFC/FPC/.049" (1.25mm)Pitch FFC/FPC/.100" (2.54mm)Pitch FFC/FPC/  
 .050" (1.27mm)Pitch FFC/FPC/.D-SUB High Current/USB2.0/USB3.0/Mini USB/Micro USB/  
 Type-c/SCSI/Telephone/Modular Jack/PLCC/IC Sockets/Fakra/HSD/Power Module/  
 DIN 41612 Power/DC Jack/battery connector/POGO Pin/High Speed Connector/  
 Hard Metric connector/SIP Sockets and Adapters/PCI EXPRESS/Board To Board 0.4MM/  
 Board To Board 0.8MM/Floating board to board/Micro Pitch Board-To-Board/Mini Jumper/  
 Medical connector/Terminal Blocks/Sensor/SATA/Waterproof connector/PHONE JACK/SMC/  
 Terminal/HDMI/AVX/MaxiBridge/MicroBridge/Mini Bridge/Sim Card/iBridge Ultra/  
 RASTER 5.0MM/0801/'0802/'0803/'0804/'0805/'0806/1001/1002/1003/1004/1005/1006/1007/  
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 2505/2506/2507/2508/2509/2510/2511/2512/2513/2514/2515/2516/2517/2518/2519/2520/2581/



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8905/89001/89002/10001/10002/10003/10004/10005



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