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Building2, Jixun Industrial Park, Xinjiao, Dong'ao
Village, Shatian Town, Huiyang District, Huizhou
City, Guangdong Province, P.R.China

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TEST REPORT

Test Report No. : **4393785.58** Version 1


Project No. : **4393785.00**

Test report date : **2022-09-22**

Job No. : 22-02887
Applicant : Flashbay Electronics
Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian
Town, Huiyang District, Huizhou City, Guangdong Province, P.R.China
Product Name : Pen Series
Model No. : Clarity(CLA)
Test Requested : 1) Toxic Substances Control Act
- 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)
2) Toxic Substances Control Act
- Pentachlorothiophenol (PCTP)
3) Toxic Substances Control Act
- Hexachlorobutadiene (HCBd)
4) Toxic Substances Control Act
- Decabromobiphenylether (decaBDE)
5) Toxic Substances Control Act
- Phenol, isopropylated phosphate (PIP(3:1))
Test Method : Please refer to next pages
Sample Received : 2022-08-16,2022-09-06
Testing Period : 2022-08-16 to 2022-09-21

Test Results
- following pages -

Resume:

Parameter	Sample photo:
	
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	PASS
Pentachlorothiophenol (PCTP)	PASS
Hexachlorobutadiene (HCBd)	PASS
Decabromobiphenylether (decaBDE)	PASS
Phenol, isopropylated phosphate (PIP(3:1))	PASS

Guangzhou, September 22, 2022

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Chemical & Mechanical



Devin Ai
Assistant Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

TESTED COMPONENTS:

- (1) Silver plastic (pen)
- (2) White coating (pen)
- (3) Black plastic (The top of the pen)
- (4) White plastic (Refill middle)
- (5) Beige plastic (refill top)
- (6) Blue-purple ink (Inside the refill)
- (7) Red coating (pen)
- (8) Blue coating (pen)
- (9) Silver coating (pen)
- (10) Black coating (pen)
- (11) Black plastic (Inside the pen)
- (12) Grey plastic (Inside the pen)
- (13) Brown plastic (Inside the pen)

TEST RESULTS

1) 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP) - Toxic Substances Control Act

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(1)	(2)	(3)	(4)	(5)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.3

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(6)	(7)	(8)	(9)	(10)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.3

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(11)	(12)	(13)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	N.D.	N.D.	N.D.	0.005	0.3

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

2) Pentachlorothiophenol (PCTP) - Toxic Substances Control Act

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(1)	(2)	(3)	(4)	(5)		
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	1

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(6)	(7)	(8)	(9)	(10)		
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	1

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(11)	(12)	(13)		
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	0.005	1

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

3) Toxic Substances Control Act-Hexachlorobutadiene (HCBD)

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(1)	(2)	(3)	(4)	(5)		
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(6)	(7)	(8)	(9)	(10)		
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(11)	(12)	(13)		
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	0.005	Not Detected

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

4) Toxic Substances Control Act-Decabromobiphenylether (decaBDE)

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(1)	(2)	(3)	(4)	(5)		
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(6)	(7)	(8)	(9)	(10)		
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(11)	(12)	(13)		
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	0.005	Not Detected

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

5) Toxic Substances Control Act-Phenol, isopropylated phosphate (PIP(3:1))

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(1)	(2)	(3)	(4)	(5)		
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)					MDL (%)	Limit (%)
		(6)	(7)	(8)	(9)	(10)		
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(11)	(12)	(13)		
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	N.D.	0.005	Not Detected

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

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