

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

Flashbay Electronics Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R.China DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou Branch Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China Tel.: +86 20 6661 2000 Fax: +86 20 6661 2001

Contact Devin Ai Tel.: +86 20 6684 3294 E-Mail: devin.ai@dekra.com Page 1 of 8

TEST REPORT

Test Report No. Project No. Test report date	4393785.55 Version 1 4393785.00 2022-09-22	
Job No. Applicant	22-02884 Flashbay Electronics	
	Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Town, Huiyang District, Huizhou City, Guangdong Province, P.	
Product Name	Pen Series	
Model No. Test Requested	Essence(ESS),Contour(CNT)Ridge(RID)	
Test Requested	 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	
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Test Results

- following pages -



Resume:

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



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) White plastic (pen)
- (2) Transparent coating (Wood)
- (3) Yellow wood (body)
- (4) Silver plastic (pen)
- (5) White plastic (Refill middle)
- (6) Beige plastic (refill top)
- (7) Blue-purple ink (Inside the refill)
- (8) Blue plastic (Outside the pen)
- (9) Grey plastic (Blue/silver pen interior)
- (10) Red plastic (Outside the pen)
- (11) Black plastic (Outside the pen)
- (12) Black plastic (White/red pen interior)
- (13) Light gray plastic (black pen interior)
- (14) White plastic with yellow dots (Corrugated shell)
- (15) Red plastic (Corrugated shell)
- (16) Blue plastic (Corrugated shell)
- (17) Gray plastic with yellow dots (Corrugated shell)



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			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			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					MDL	Limit		
	CAS No	(11)	(12)	(13)	(14)	(15)	(%)	(%)
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 lier		Resu	Result (%)				
Test Item CAS No		(16)	(17)	(%)	(%)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	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 CA				MDL	Limit			
	CAS No	(1)	(2)	(3)	(4)	(5)	(%)	(%)
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	1

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				MDL	Limit			
Test Item	CAS No	(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			MDL	Limit			
		(11)	(12)	(13)	(14)	(15)	(%)	(%)
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	1

Test liem		Resu	MDL	Limit		
Test Item CAS No		(16)	(17)	(%)	(%)	
Pentachlorothiophenol (PCTP)	133-49-3	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			MDL	$1 i = i + \langle 0 \rangle$			
		(1)	(2)	(3)	(4)	(5)	(%)	Limit (%)
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No				MDL	$\lim_{n \to \infty} it (0/)$		
		(6)	(7)	(8)	(9)	(10)	(%)	Limit (%)
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No			MDL	$\lim_{n \to \infty} \frac{1}{n} \left(\frac{1}{n} \right)$			
Test Item		(11)	(12)	(13)	(14)	(15)	(%)	Limit (%)
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item C		Resu	Result (%)				
	CAS No	(16)	(17)	(%)	Limit (%)		
Hexachlorobutadiene (HCBD)	87-68-3	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 litere	CAS No				MDL	1 = 1 + 10		
Test Item		(1)	(2)	(3)	(4)	(5)	(%)	Limit (%)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item				MDL	$1 i = i + \langle 0 \rangle$			
Test Item	CAS No	(6)	(7)	(8)	(9)	(10)	(%)	Limit (%)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item				Result (%	6)		MDL	$\lim_{n \to \infty} it (0/)$
	CAS No	(11)	(12)	(13)	(14)	(15)	(%)	Limit (%)
Decabromodiphenyl ether	1163-19-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not
(DecaBDE)	1103-19-5	IN.D.	IN.D.	IN.D.	IN.D.	IN.D.	0.005	Detected

Test Here		Resu	MDL	Limit (%)	
Test Item	CAS No	(16)	(17)	(%)	Limit (%)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	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).

Toot Itom				MDL	$\lim_{n \to \infty} it (0/)$			
Test Item	CAS No	(1)	(2)	(3)	(4)	(5)	(%)	Limit (%)
Phenol, isopropylated	68937-41-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	Not

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Test Item	CAS No			MDL	1 = 100			
		(1)	(2)	(3)	(4)	(5)	(%)	Limit (%)
phosphate (3:1)								Detected
[PIP (3:1)]								

Test Item				Result (%		MDL	Limit (%)	
Test Item	CAS No	(6)	(7)	(8)	(9)	(10)	(%)	LIIIII (76)
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 lier	CAS No			MDL	$1 i = i + \langle 0 \rangle$			
Test Item		(11)	(12)	(13)	(14)	(15)	(%)	Limit (%)
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		Resu	ult (%)	MDL	$\lim_{n \to \infty} it (0/)$
Test Item	CAS No	(16)	(17)	(%)	Limit (%)
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	0.005	Not Detected

Remark:

1. N.D. = Not Detected (below MDL)

2. MDL = Method Detection Limit

3. % = Percentage

---End of Report---