



Test Report

Report No: CX/2016/90050

Date: 2016/09/29

CORE CORPORATION
CORE R&D CENTER, 11-1, MINAMIKUROKAWA, ASAO-KU, KAWASAKI-SHI,
KANAGAWA

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Description : GR-PEACH (FULL)
Style/Item No. : X28A-M01G
Sample Receiving Date : 2016/09/09
Testing Period : 2016/09/09 to 2016/09/29

=====
Test Requested : From client requirements, with reference to the China RoHS limits of GB/T 26572-2011 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs content in the submitted sample.

Test Result(s) : Please refer to next page(s).

Conclusion : Based upon the performed tests on submitted samples, the test results comply with the China RoHS limits of GB/T 26572-2011.


Wendy Wei, Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



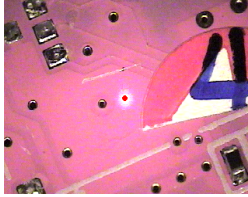
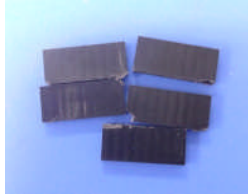


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1. Material Fraction Composition



Table 1 The results of XRF screening and chemical test (Unit: mg/kg)

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
					Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	PCBA	1.1 ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---	---	
					Cd	n.d.				
					Hg	n.d.				
					Cr	n.d.				
					Br	n.d.				
					Cr(VI)					
					PBB					
					PBDE					
					Pb	n.d.				
	Cd	n.d.								
	Hg	n.d.								
	Cr	141								
	Br	n.d.								
	Cr(VI)									
	PBB									
	PBDE									
	1.3 SOLDER		Metals		Pb	349		---	---	---
					Cd	n.d.				
Hg					n.d.					
Cr					n.d.					
Br					n.d.					
Cr(VI)										
PBB										
PBDE										

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
					Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	PCBA	1.4	RAW PCB		Composite Material	Pb	n.d.		---		
						Cd	n.d.		---		
	Hg	n.d.		---							
	Cr	n.d.									
	Br	383		---							
	Cr(VI)										
	PBB				n.d.						
	PBDE				n.d.						
	PCBA	1.5	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
	Hg	n.d.		---							
	Cr	n.d.									
Br	117000		---								
Cr(VI)											
PBB				n.d.							
PBDE				n.d.							
PCBA	1.6	GOLDEN METALLIC PIN		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
Hg	n.d.		---								
Cr	n.d.										
Br	n.d.		---								
Cr(VI)											
PBB				---							
PBDE				---							
PCBA	1.7	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
Hg	n.d.		---								
Cr	98600										
Br	n.d.		n.d.								
Cr(VI)											
PBB				---							
PBDE				---							

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
					Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	PCBA	1.8	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)			---		
						PBB			---		
						PBDE			---		
		1.9	SILVERY METALLIC FRAME		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	167000				
						Br	n.d.				
						Cr(VI)			n.d.		
						PBB			---		
						PBDE			---		
	1.10	BLACK PLASTIC FRAME		Polymers	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)			---			
					PBB			---			
					PBDE			---			
	1.11	SILVERY METALLIC SHEET		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	183000					
					Br	n.d.					
					Cr(VI)			n.d.			
					PBB			---			
					PBDE			---			

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note			
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE				
1	PCBA	1.12	BEIGE PLASTIC BUTTON		Polymers	Pb	n.d.							
						Cd	n.d.							
						Hg	n.d.							
						Cr	n.d.							
						Br	n.d.							
						Cr(VI)							---	
						PBB								---
						PBDE								---
		1.13	SILVERY METALLIC FRAME		Metals	Pb	n.d.							
						Cd	n.d.							
						Hg	n.d.							
						Cr	109000							
						Br	n.d.							
						Cr(VI)							n.d.	
						PBB								---
						PBDE								---
		1.14	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.							
						Cd	n.d.							
						Hg	n.d.							
						Cr	n.d.							
Br						51800								
Cr(VI)							---							
PBB													n.d.	
PBDE													n.d.	
	1.15	LED		Composite Material	Pb	n.d.								
					Cd	n.d.								
					Hg	n.d.								
					Cr	n.d.								
					Br	n.d.								
					Cr(VI)							---		
					PBB								---	
					PBDE								---	

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1		1.16	LED		Composite Material	Pb	n.d.		---		
						Cd	n.d.				
						Hg	n.d.				
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB			---		
						PBDE			---		



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Test Item :	MDL (mg/kg)				XRF screening threshold (mg/kg)	Test method
	Category Element	Polymers	Composite Material	Metals		
XRF (X-ray fluorescence)	Pb	50	100	100	500	With reference to GB/T 26125-2011
	Cd	50	50	50	50	
	Hg	50	100	100	500	
	Cr	50	100	100	500	
	Br	50	100	n.a.	250	

Test Item (s):	Test method	MDL (mg/kg)	Facilities
Cr(VI)	With reference to GB/T 26125-2011 (For Polymers and Electronics)	2	UV
Pb/Cd	With reference to GB/T 26125-2011	2	ICP-AES
Hg			

Test Item (s):	Test method	MDL (µg/cm ²)	Facilities
Cr(VI)(#2)	With reference to IEC 62321-7-1:2015 (For Coatings on Metals)	0.1	UV

Test Item (s):	Unit	Method	MDL (mg/kg)
PBBs		With reference to GB/T 26125-2011. Determination of PBB and PBDE by GC/MS.	
Monobromobiphenyl	mg/kg		5
Dibromobiphenyl	mg/kg		5
Tribromobiphenyl	mg/kg		5
Tetrabromobiphenyl	mg/kg		5
Pentabromobiphenyl	mg/kg		5
Hexabromobiphenyl	mg/kg		5
Heptabromobiphenyl	mg/kg		5
Octabromobiphenyl	mg/kg		5
Nonabromobiphenyl	mg/kg		5
Decabromobiphenyl	mg/kg		5
PBDEs			
Monobromodiphenyl ether	mg/kg		5
Dibromodiphenyl ether	mg/kg		5
Tribromodiphenyl ether	mg/kg		5
Tetrabromodiphenyl ether	mg/kg		5
Pentabromodiphenyl ether	mg/kg		5
Hexabromodiphenyl ether	mg/kg		5
Heptabromodiphenyl ether	mg/kg		5
Octabromodiphenyl ether	mg/kg		5
Nonabromodiphenyl ether	mg/kg	5	
Decabromodiphenyl ether	mg/kg	5	

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1. mg/kg = ppm
2. n.d. = not detected or lower than MDL
3. MDL = Method detection limit
4. "---" = not conducted
5. n.a. = not applicable

The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer. If the Br result is shown as n.d., the reading will be less than 100ppm.

6. " - " = Not Regulated
7. (#2):
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 mg/cm².
The coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 mg/cm²).
The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 mg/cm² and 0.13 mg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
8. Magnetic samples can not be located on test position and there are breakdown risks on XRF equipment. Therefore, this kind of sample will be conducted chemical test directly.
9. If the test result by EDXRF analysis is greater than XRF screening threshold, the test sample should be further conducted by chemical test.

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