

No. SZXEC2100008401

Date: 07 Jan 2021

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APOLLO SEMICONDUCTOR LIMITED

UNIT C, 4TH FLOOR, CHINA INSURANCE BUILDING, 48 CAMERON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as : SOT23-3				
SGS Job No. :	RP20-029102 - SZ			
Model No. :	SOT23-3			
Client Ref. Info. :	SOT23/23-5/23-6/89/89-5/223/143/143R/153/163/323/343/343R/353/363/			
	523/563/723/883/923,SOP4/8/14/16/18/20/24, TSSOP8/14/16/18/20/24,			
	DFN/PDFN/QFN,SOD106/123/123F/123FL/123FH/323/323F/323FL/			
	523/723/882/923,DO15/27/34/35/41/123AB/201AD, LL34/41/43/51,			
	SC59/75,TO92/126/220/220AB/220MF/220F/247/263/277, TO252/251,			
	R1/3/6, DIP,1N/1Z,SMA/SMAF/SMB/SMBF/SMC,01005/0201/0402/			
	0603/0805/1008/1206/1210, ABF/ABS/LBF/DBS/DBJ/DFS/KBL/GBL/			
	GBJ/GBP/MBS/MSB/MLP/MDS/MBF/ TWB/MB/TSB/WOB/WOG/KBP/			
	KBU/KBPC/TS4B/RB-5			
Country of Origin :	China			
Date of Sample Received :	04 Jan 2021			
Testing Period :	04 Jan 2021 - 07 Jan 2021			
Test Requested :	Selected test(s) as requested by client.			
Test Method :	Please refer to next page(s).			
Test Results :	Please refer to next page(s).			
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.			



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

Ford

Ford Shi Approved Signatory





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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX21-000084.001	"SOT23-3"

Remarks :

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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	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.

IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25

(2) 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.

(3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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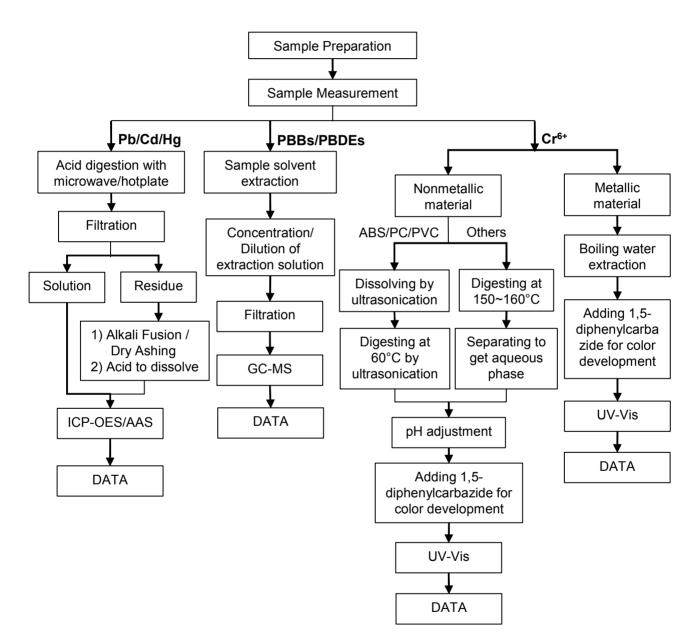


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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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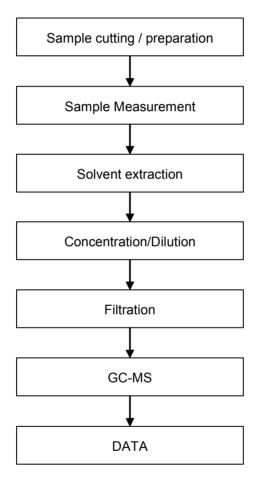
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Phthalates Testing Flow Chart





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