

Page 1 of 7 **Report No.** A2230102181101001 **Company Name** SHUEN DER INDUSTRY(JIANG SU)CO.,LTD. shown on Report Address NO. 2 SHANGHAI ROAD, ZHANGJIAGANG FREE TRADE ZONE, JIANGSU The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant Sample Name LeadFrame Material PMC90 Mar. 13, 2023 Sample Received Date **Testing Period** Mar. 13, 2023 to Mar. 16, 2023 As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent **Test Requested** Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s). Please refer to the following page(s). **Test Method** Test Result(s) Please refer to the following page(s). ****** ***** Conclusion **Tested Sample** According to standard/directive Result PASS

Submitted Sample RoHS Directive 2011/65/EU with amendment (EU) 2015/863

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

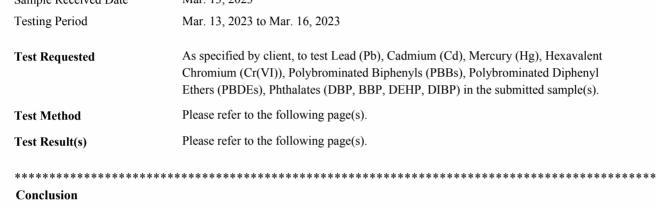


Date

Mar. 16, 2023

No. R667311522

No.1351, Wanfang Road, Minhang District, Shanghai, China





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Test Method					
Test Item(s)	Test Method	Measured Equipment(s)			
Lead (Pb)	IEC 62321-5:2013	ICP-OES			
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES			
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES			
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis			
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS			
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS			
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS			





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Test Result(s)			1
Tested Item(s)	Result	MDL	Limit
Lead (Pb)	001 11 mg/kg	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. V	0.10 µg/cm ² (LOQ)	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
	001		
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	Limit
	001		
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

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Test Result(s)				
	Result	MDL	Limit	
Tested Item(s)	001			
Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg	
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg	
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg	
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg	

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Metal base

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \ \mu g/cm^2$

- The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating.

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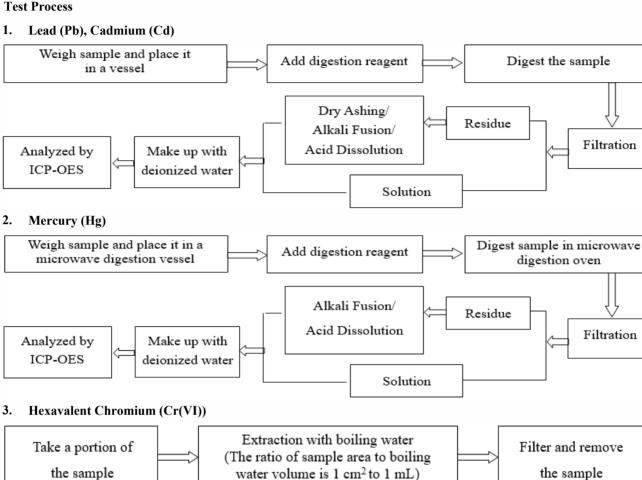
rvice

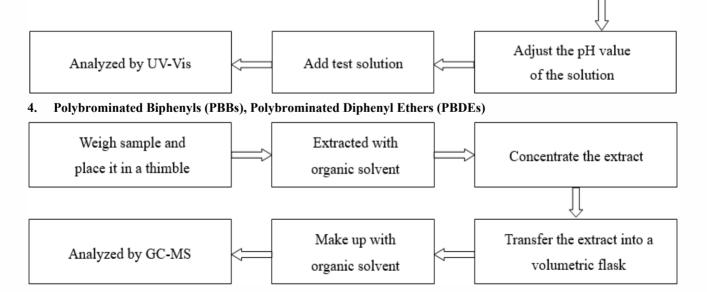
CTI华测检测

Test Report

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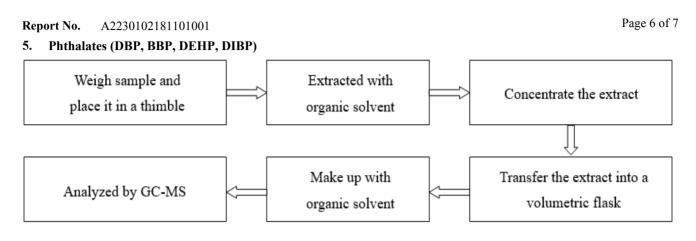
Test Process





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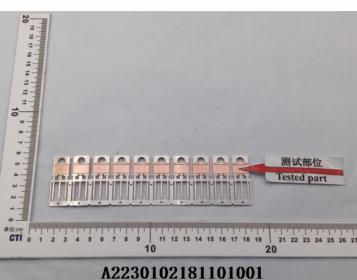
Photo(s) of the sample(s)

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were
- provided by the applicant who should be responsible for the authenticity which CTI hasn't verified; 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

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