



Test Report

No.: ETR20C04087

Date: 23-Dec-2020

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TAIYO INK MFG. CO., LTD.

900, HIRASAWA, RANZAN-MACHI, HIKI-GUN, SAITAMA 355-0215 JAPAN

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

Sample Submitted By : TAIYO INK MFG. CO., LTD.
 Sample Name : PSR-4000 AUS308/CA-40 AUS308 (UL : PSR-4000EY/CA-40ER)
 Style/Item No. : INK
 Color : GREEN

=====

Sample Receiving Date : 17-Dec-2020
 Testing Period : 17-Dec-2020 to 23-Dec-2020

Test Requested : As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

Test Results : Please refer to following pages.
Conclusion : Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Chang
 Troy Chang, Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei




PIN CODE: 2479A8F9

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Test Part Description

No.1 : GREEN INK

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit	
				No.1		
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100	
Lead (Pb) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000	
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000	
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000	
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	-	
Dibromobiphenyl		mg/kg	5	n.d.	-	
Tribromobiphenyl		mg/kg	5	n.d.	-	
Tetrabromobiphenyl		mg/kg	5	n.d.	-	
Pentabromobiphenyl		mg/kg	5	n.d.	-	
Hexabromobiphenyl		mg/kg	5	n.d.	-	
Heptabromobiphenyl		mg/kg	5	n.d.	-	
Octabromobiphenyl		mg/kg	5	n.d.	-	
Nonabromobiphenyl		mg/kg	5	n.d.	-	
Decabromobiphenyl		mg/kg	5	n.d.	-	
Sum of PBBs		mg/kg	-	n.d.	1000	
Monobromodiphenyl ether		With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether			mg/kg	5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-	
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-	
Pentabromodiphenyl ether	mg/kg		5	n.d.	-	
Hexabromodiphenyl ether	mg/kg		5	n.d.	-	
Heptabromodiphenyl ether	mg/kg		5	n.d.	-	
Octabromodiphenyl ether	mg/kg		5	n.d.	-	
Nonabromodiphenyl ether	mg/kg		5	n.d.	-	
Decabromodiphenyl ether	mg/kg		5	n.d.	-	
Sum of PBDEs	mg/kg		-	n.d.	1000	

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000

Note :

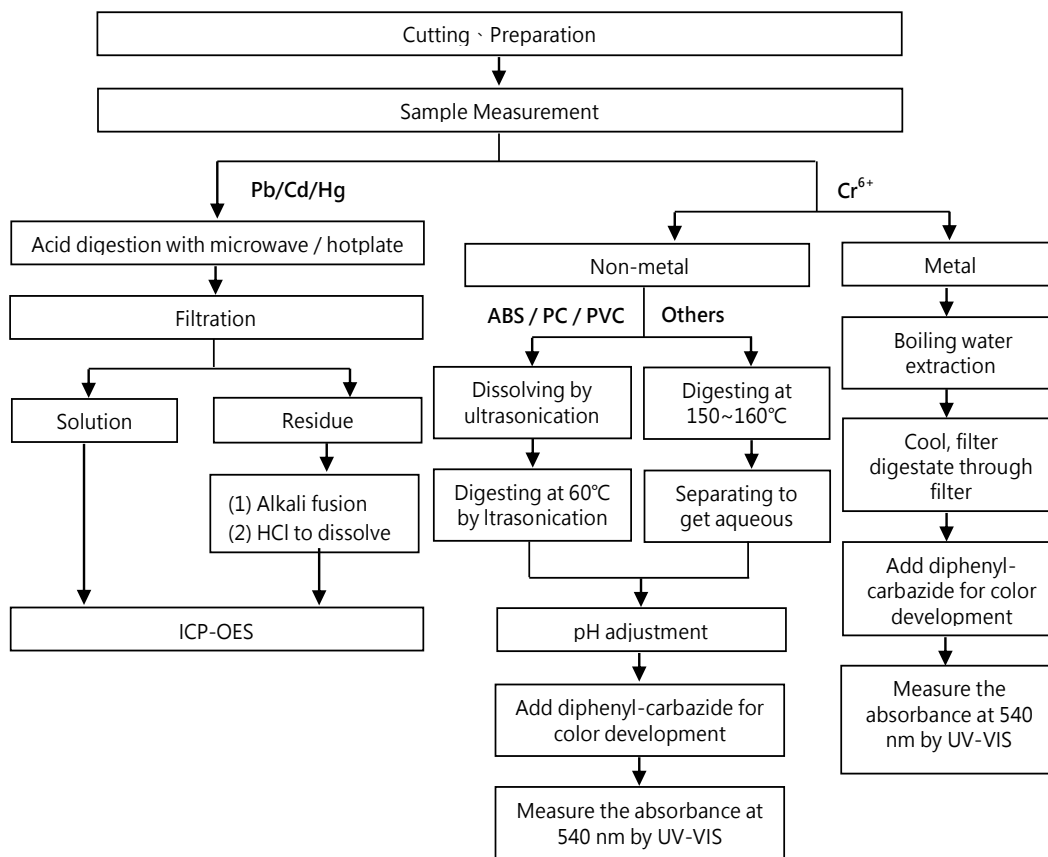
1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. The statement of compliance conformity is based on comparison of testing results and limits.

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Analytical flow chart of Heavy Metal

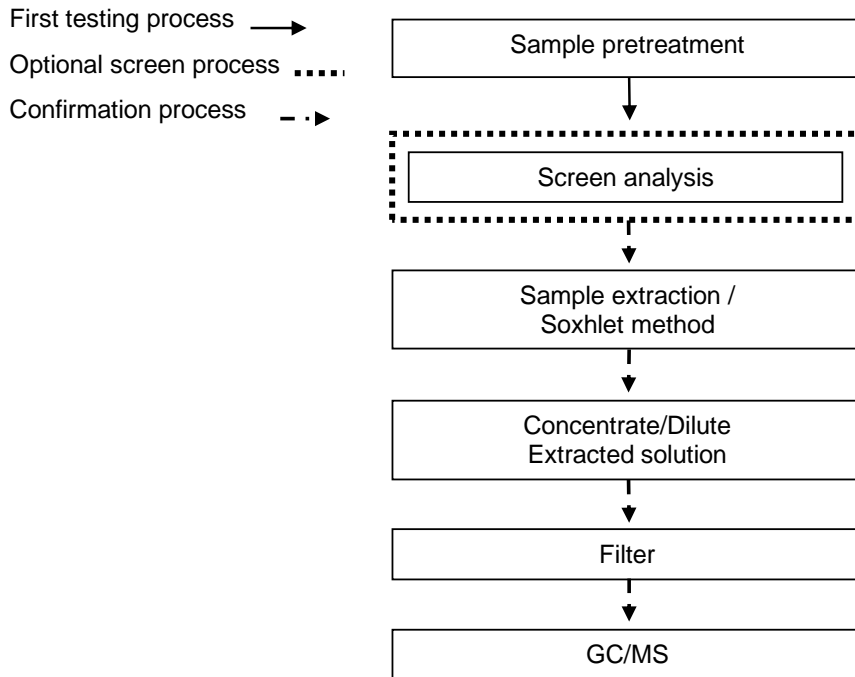
These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)



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Analytical flow chart – PBBs / PBDEs



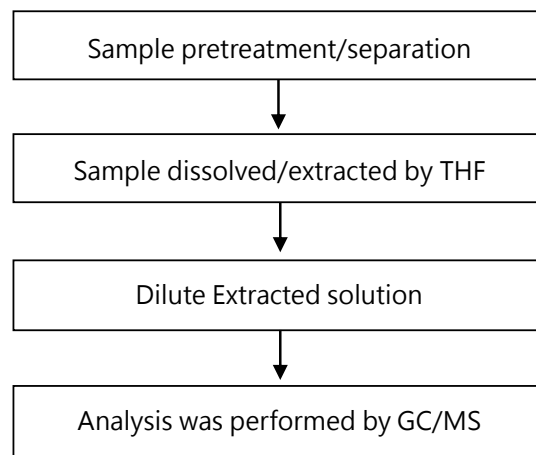
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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **

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