

# Test Report

No. : CE/2007/36650

Date : 2007/03/29

Page : 1 of 5

TECHI COLOR INDUSTRIAL CO., LTD.  
17-8, ALLEY 3, LANE 18, HO PING EAST. RD., SEC. 2, TAIPEI, TAIWAN



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

Sample Description : 1521  
Style/Item No. : PIGMENT  
Sample Receiving Date : 2007/03/22  
Testing Period : 2007/03/22 TO 2007/03/29

=====

**Test Requested** : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

**Test Method** :

- (1) With reference to IEC 62321, Ed.1 111/54/CDV - Section 11. Determination of Cadmium by ICP-AES.
- (2) With reference to IEC 62321, Ed.1 111/54/CDV - Section 11. Determination of Lead by ICP-AES.
- (3) With reference to IEC 62321, Ed.1 111/54/CDV - Section 10. Determination of Mercury by ICP-AES.
- (4) With reference to IEC 62321, Ed.1 111/54/CDV - Section 9. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) With reference to IEC 62321, Ed.1 111/54/CDV - Section 7. Determination of PBB and PBDE by GC/MS.

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

**Conclusion** : Based on the performed tests on submitted samples, the test results are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

# Test Report

No. : CE/2007/36650

Date : 2007/03/29

Page : 2 of 5

TECHI COLOR INDUSTRIAL CO., LTD.  
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Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL	RoHS Limit
		No.1		
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	19	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
<b>Sum of PBBs</b>	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-
<b>Sum of PBDEs (Mono to Nona) (Note 4)</b>		n.d.	-	1000
Monobromobiphenyl ether		n.d.	5	-
Dibromobiphenyl ether		n.d.	5	-
Tribromobiphenyl ether		n.d.	5	-
Tetrabromobiphenyl ether		n.d.	5	-
Pentabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	-
Heptabromobiphenyl ether		n.d.	5	-
Octabromobiphenyl ether		n.d.	5	-
Nonabromobiphenyl ether		n.d.	5	-
Decabromobiphenyl ether		n.d.	5	-
<b>Sum of PBDEs (Mono to Deca)</b>		n.d.	-	-

## TEST PART DESCRIPTION:

NO.1 : BLUE PIGMENT LUMP

Note : 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

# Test Report

No. : CE/2007/36650

Date : 2007/03/29

Page : 3 of 5

TECHI COLOR INDUSTRIAL CO., LTD.

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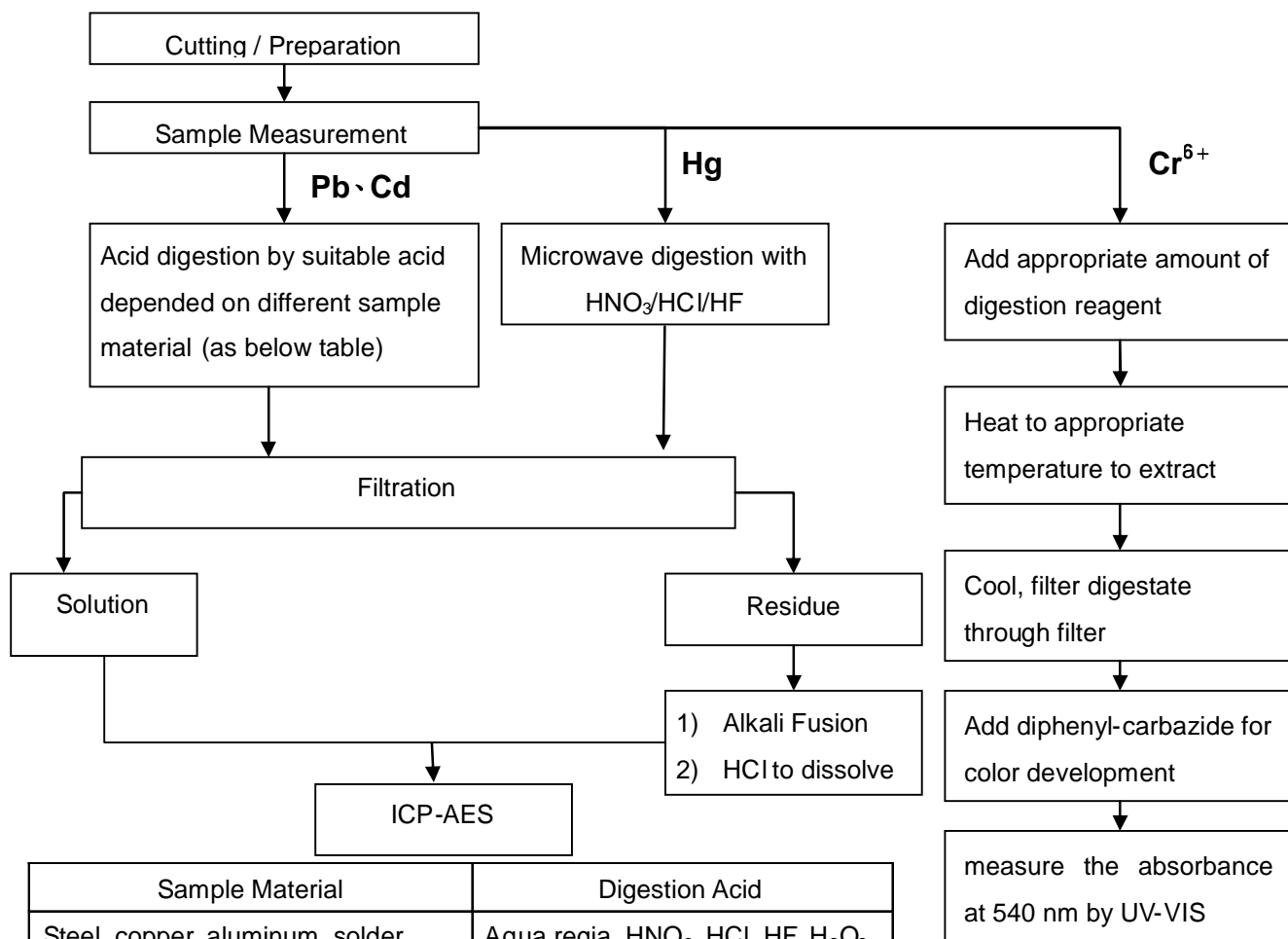


1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr<sup>6+</sup> test method excluded)

2) Name of the person who made measurement: Troy Chang

3) Name of the person in charge of measurement: Daniel Yeh



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

# Test Report

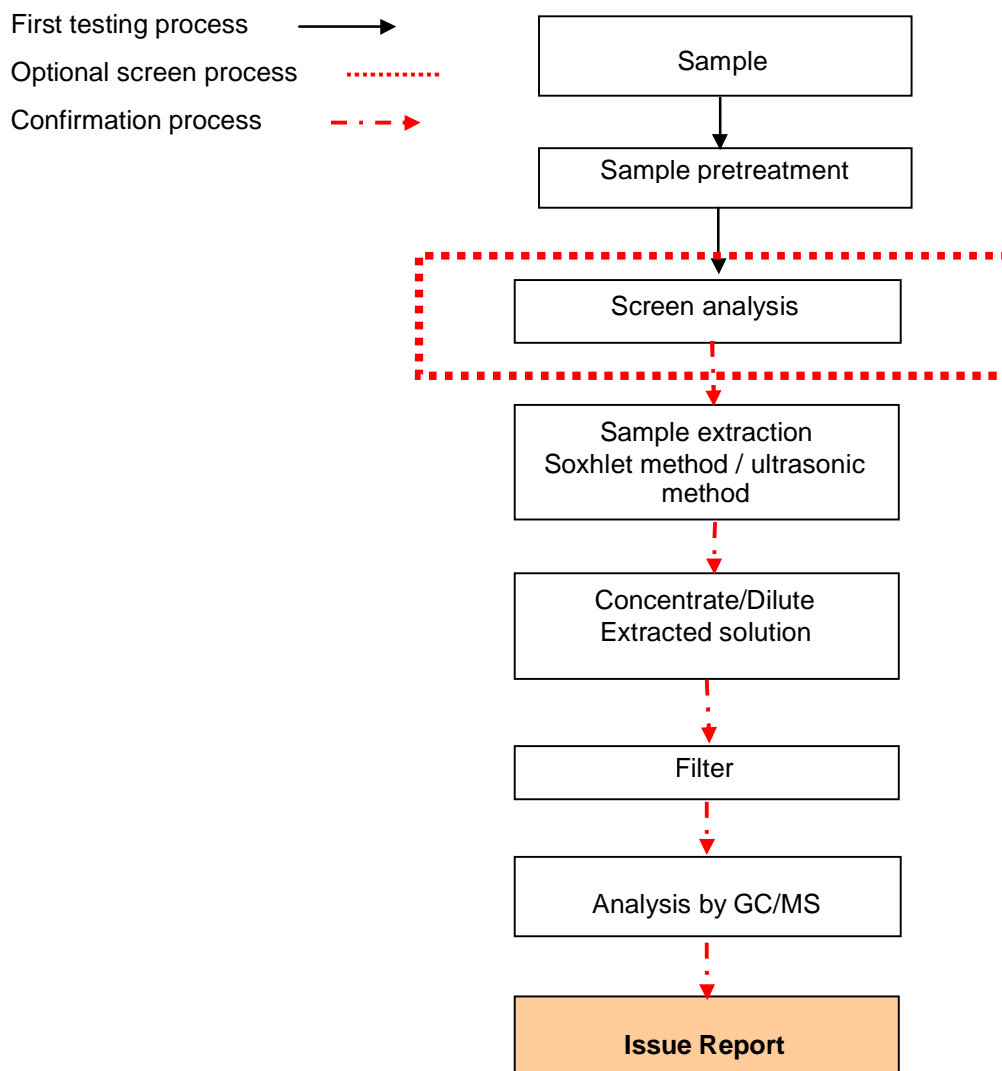
No. : CE/2007/36650    Date : 2007/03/29

Page : 4 of 5

TECHI COLOR INDUSTRIAL CO., LTD.  
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## PBB/PBDE analytical FLOW CHART



## Test Report

No. : CE/2007/36650

Date : 2007/03/29

Page : 5 of 5

TECHI COLOR INDUSTRIAL CO., LTD.

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