

## Test Report

No. : KE/2010/83286

Date : 2010/09/03

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NEW PRISMATIC ENTERPRISE CO., LTD.  
NO. 4, ALLEY 27, LANE 195, YUNG FENG RD., TU-CHENG CITY, TAIPEI  
COUNTY 236, TAIWAN



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

Sample Description : IR INVISIBLE FLUORESCENT PIGMENT #413 RED  
Material Component : PIGMENT  
Color : WHITE  
Sample Receiving Date : 2010/08/30  
Testing Period : 2010/08/30 TO 2010/09/03

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

Test Method : With reference to IEC 62321: 2008 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.
- (5) Determination of PBB and PBDE by GC/MS.

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

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

*Ray Chang*

Ray Chang / Asst. Manager  
Signed for and on behalf of  
SGS Taiwan Limited



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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)               | 2.22   | 2   | 100        |
| Lead (Pb)   | (2)               | n.d.   | 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>                                |                   | 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</b>                               | (5)               | n.d.   | -   | 1000       |
| Monobromodiphenyl ether                           |                   | n.d.   | 5   | -          |
| Dibromodiphenyl ether                             |                   | n.d.   | 5   | -          |
| Tribromodiphenyl ether                            |                   | n.d.   | 5   | -          |
| Tetrabromodiphenyl ether                          |                   | n.d.   | 5   | -          |
| Pentabromodiphenyl ether                          |                   | n.d.   | 5   | -          |
| Hexabromodiphenyl ether                           |                   | n.d.   | 5   | -          |
| Heptabromodiphenyl ether                          |                   | n.d.   | 5   | -          |
| Octabromodiphenyl ether                           |                   | n.d.   | 5   | -          |
| Nonabromodiphenyl ether                           |                   | n.d.   | 5   | -          |
| Decabromodiphenyl ether                           |                   | n.d.   | 5   | -          |

## TEST PART DESCRIPTION:

NO.1 : PIGMENT POWDER IN WHITE

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- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. "-" = Not Regulated



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## Test Report

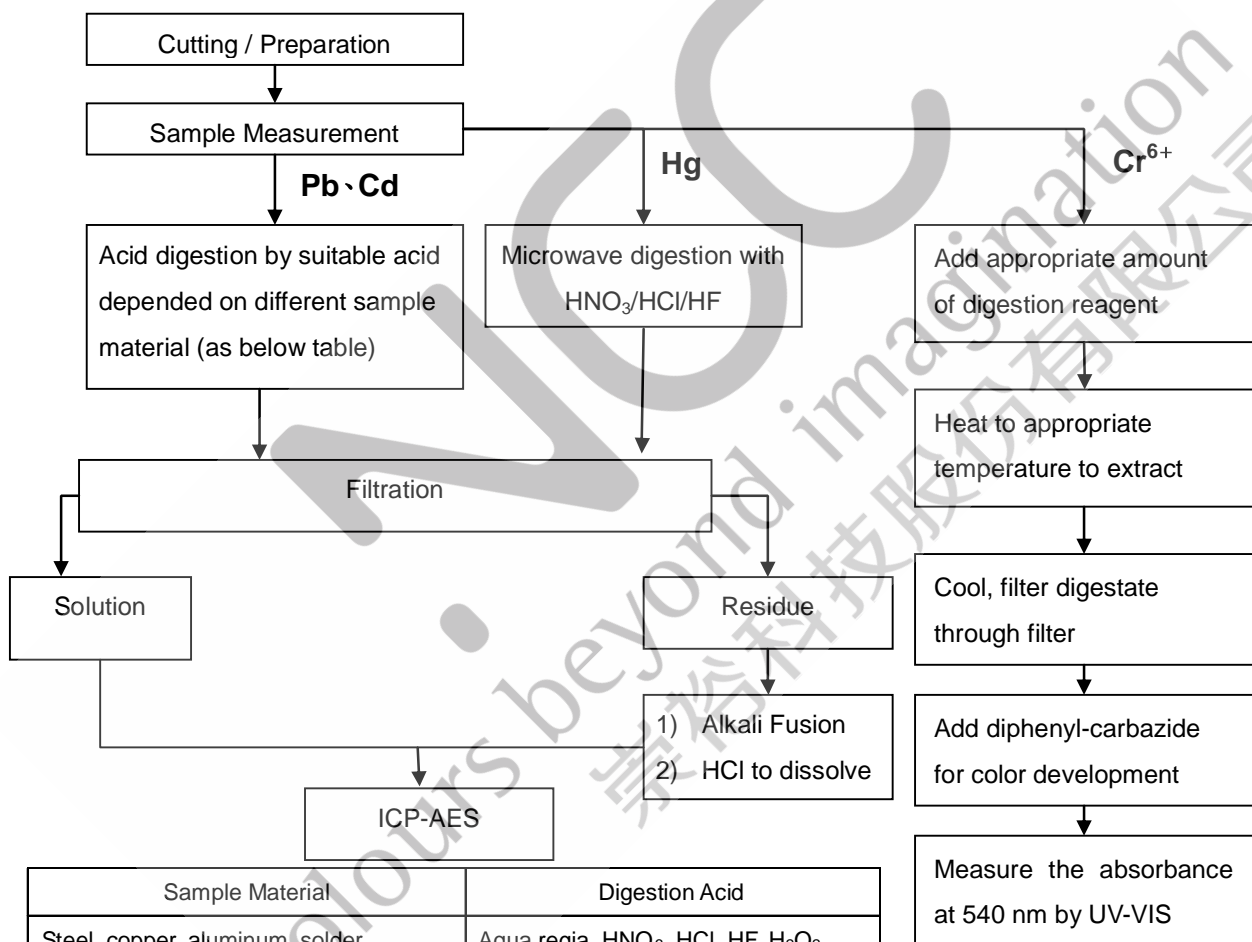
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



| 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   |

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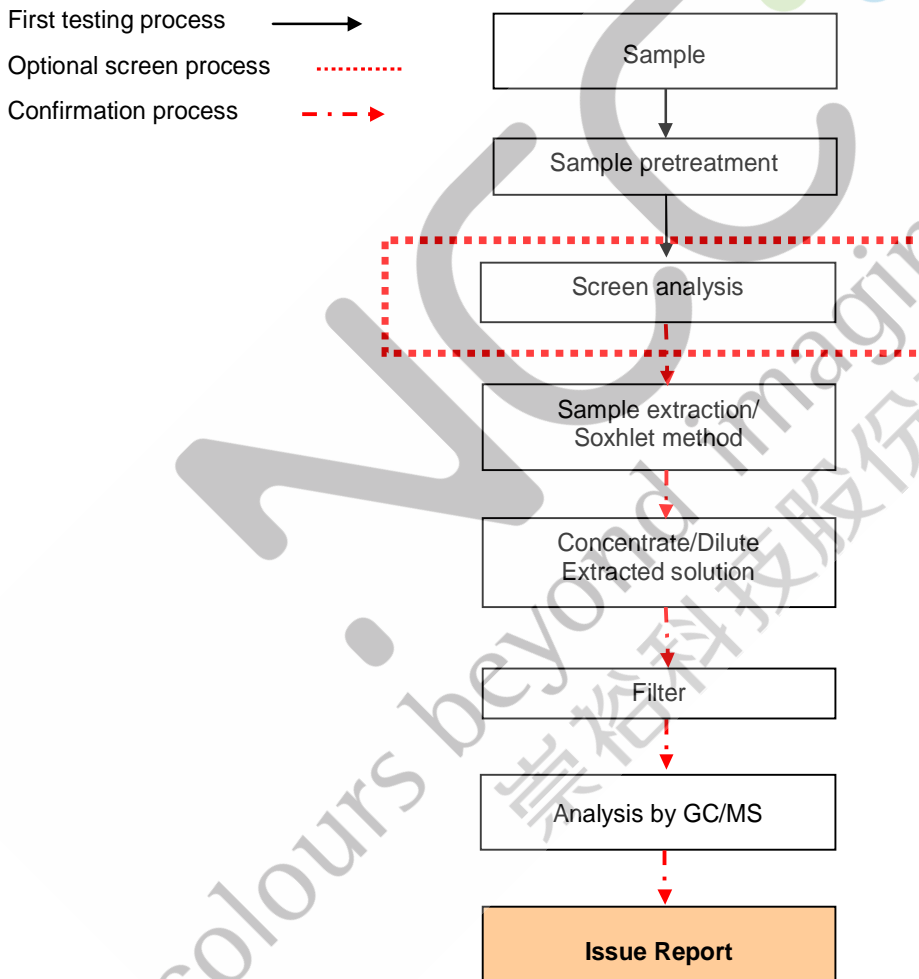
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### PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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\*\* End of Report \*\*

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