



## Test Report

No. 2350293-CH05

Date: March 21, 2011

Page 1 of 4

Samtec Inc.  
520 Park East Blvd  
New Albany, IN 47151  
United States

Attn: Dick Bowyer

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

**Elemental Matte Tin on Graphite Rod**  
**Color: Grey/White Tin Metallic Appearance**  
**Sample/Style #: Sample Labeled: Matte Tin Plate**

Sample Received Date:

3/14/2011

Testing Period:

3/16/2011 – 3/18/2011

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Comment
European Directive 2002/95/EC (RoHS) and its subsequent amendments	PASS

Signed for and on behalf of SGS North America

Prepared By:

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Assistant Laboratory Manager, Chemistry  
Laboratory

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Report Writer, Chemistry Laboratory

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**1. Test results by chemical method:**
Cadmium, Lead, Mercury and Hexavalent Chromium content

Method : With reference to IEC 62321:2008. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry and Chromium (VI) was analyzed by UV-Visible Spectroscopy.

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
Cadmium (Cd)		ND	20	100
Lead (Pb)		ND	20	1000
Mercury (Hg)		ND	20	1000
Hexavalent Chromium (Cr(VI))		ND*	20	1000
<b>Comment</b>		PASS	--	--

Sample Description:

 1. [Matte Tin Plate](#)

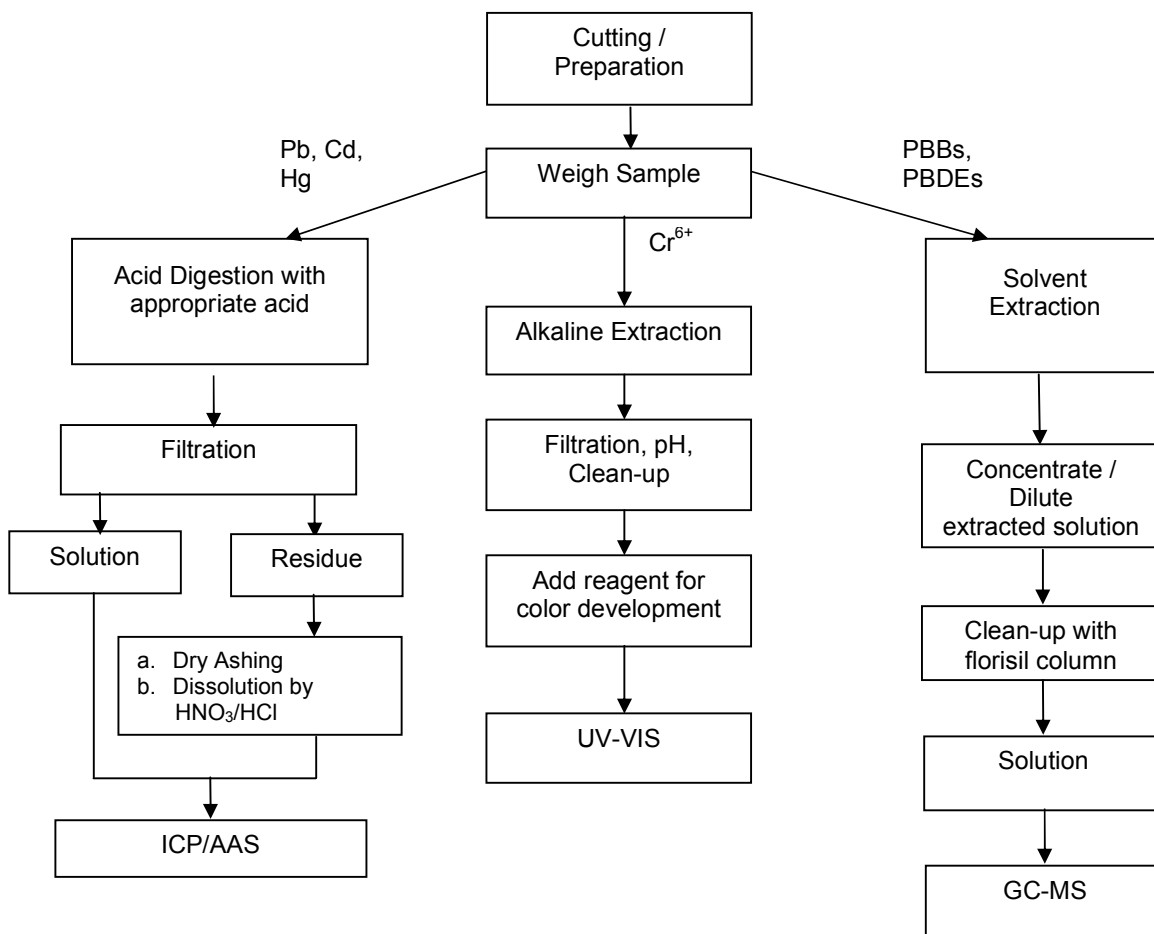
*\*Total Chromium analysis by ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.*

## Note :

1. MDL = Method Detection Limit
2. ND = Not Detected = denoted less than reporting limit

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**Flowchart:**



- Note : 1. For Cr(VI), spot test is adopted for metal sample.  
 2. The Cd and Pb contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.

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**Sample Photo:**



SGS authenticates the photo on the original report only

\*\*\* End of Report \*\*\*

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