

## Test Report

No. 2340509-CH37

Date: March 22, 2011

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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:

**Brass (Leaded)**  
**Color: Brass – Yellow**  
**Sample/Style #: Sample Labeled: Brass (Leaded)**

Sample Received Date: 3/9/2011

Testing Period: 3/10/2011 – 3/18/2011

Test Requested : Please refer to the result summary.

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

Result Summary :

Test Requested	Conclusion
European Directive 2002/95/EC (RoHS) and its subsequent amendments	See test results

Signed for and on behalf of SGS North America



Cyrus Chan  
Laboratory Manager, Chemistry Laboratory

Prepared By:



Veronica Marrero  
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)	20 ppm		20	100
Lead (Pb)	34,160 ppm		20	1000
Mercury (Hg)	ND		20	1000
Hexavalent Chromium by spot test (Cr(VI))	Negative; bubbles observed – boiling water test performed		#	#
Hexavalent Chromium by boiling water extraction (Cr(VI))	Negative for presence of Hexavalent Chromium		#	#
<b>Comment</b>	<b>FAIL</b>		--	--

Sample Description:

1. **Brass (Leaded)**

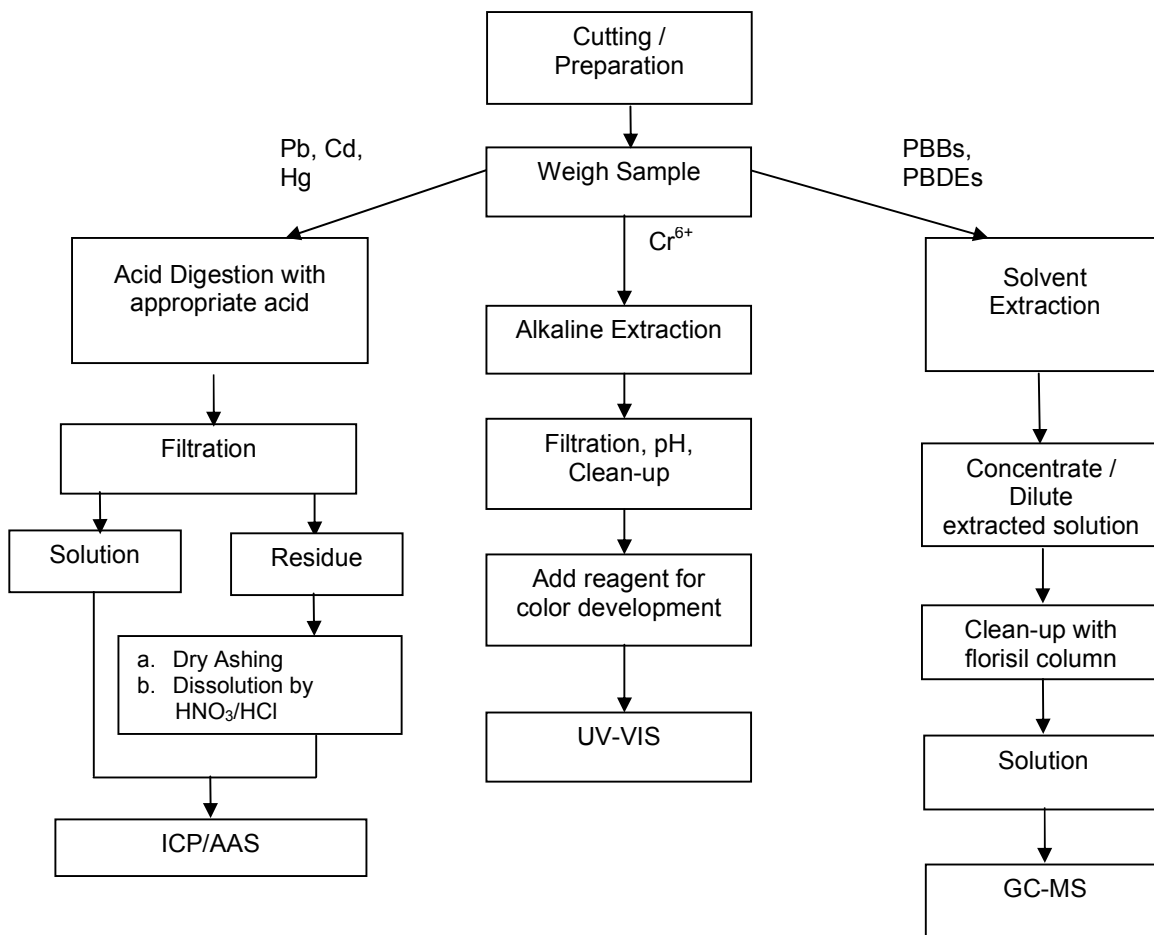
## Note :

1. ND = Not Detected = denoted less than reporting limit

Remark : 1. # = Negative means the absence of CrVI on the tested areas; Positive means the presence of CrVI on the tested areas. The detected CrVI concentration in the boiling-water-extraction solution is equal to or greater than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area.

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**Flowchart:**



- Note : 1. For Cr(VI), spot test is adopted for metal sample.  
 2. The Cd, Pb and Hg 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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