



RLC ENGINEERS PRIVATE LIMITED
WELLINGTON BUSINESS PARK-I, 6TH FLOOR, UNIT NO-603
Mumbai-400059
IN

CONTACT PERSON : Mr. SATISH PALADIA

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

SGS Job No.: **2342819237**
Buyer name: /
Tested sample description: HEATSHRINK LOW VOLTAGE CABLE BREAKOUTS (2W,3W,4W,5W AND 6W) AND LOW VOLTAGE CABLE END CAPS WITH HOT MELT ADHESIVE COATED
Order No. PO NO. 20232024/001/151499/00 DTD 10.08.2023
Colour BLACK
End use HEAT SHRINK POWER CABLE ACCESSORIES
Country of Destination INDIA
Country of Origin EUROPE/ ASIA /M.EAST /AUSTRALIA /AFRICA/ ALL COUNTRIES
Date of sample Received: 04 September 2023
Testing period: 04 September 2023 – 12 September 2023
Test requested: Selected test (s) as requested by client.
Test method: Please refer to next page(s).
Test results: Please refer to next page(s).

Conclusion

Based on the performed tests on selected part of submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) **comply** with the limits as set by RoHS Directive (EU) 2015/863 amending AnnexII to Directive 2011/65/EU.

Note: NABL symbol is published only on the page/s having accredited parameters

Per pro SGS India Private Ltd

P.SHANMUGAM
SENIOR EXECUTIVE

Authorized Signatory-Hazardous & Restricted Substances

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

TEST REPORT

Report No. : CH:TX:1442041609

ISSUE DATE : 13/09/2023



Test Part Description:

Specimen No.	SGS Sample ID	Description
1	1	HEATSHRINK LOW VOLTAGE CABLE BREAKOUTS (2W,3W,4W,5W AND 6W) AND LOW VOLTAGE CABLE END CAPS WITH HOT MELT ADHESIVE COATED

Remarks:

- (1) 1mg/kg=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method:

- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES/ ICP-MS.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES/ ICP-MS.
- (3) With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES/ ICP-MS.
- (4) With reference to IEC 62321-7-1:2017 / IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

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ACCREDITED TEST (S)

<u>Test Item(s):</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Note : ND – Not Detected / MDL – Method detection limit
1% = 10000 mg/kg

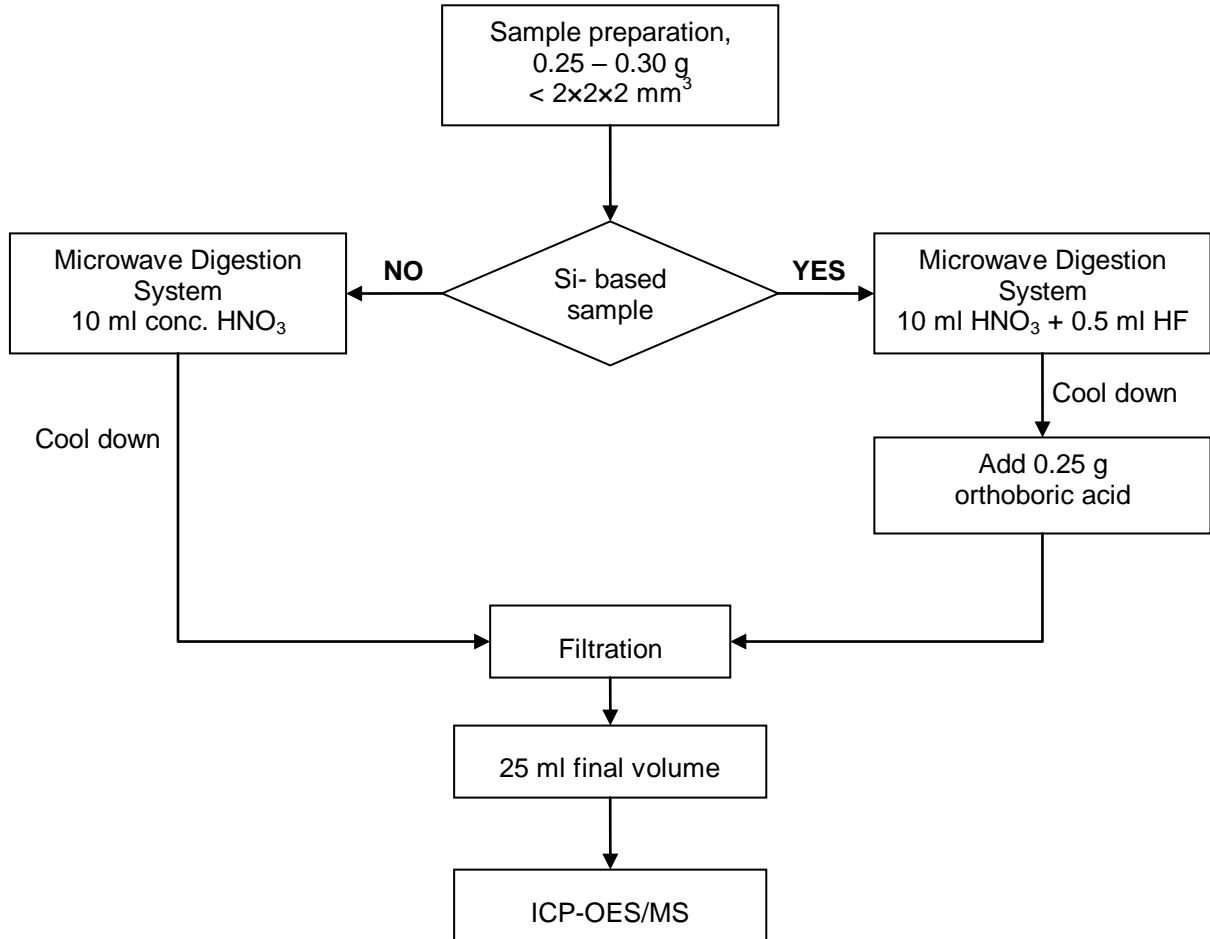


Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to BS EN 62321 series.
- (3) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (4) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (5) Test subcontracted to SGS approved lab (SGS Chennai)



Process Flow for analysis of metal contents in plastics, metals and electronic components sample

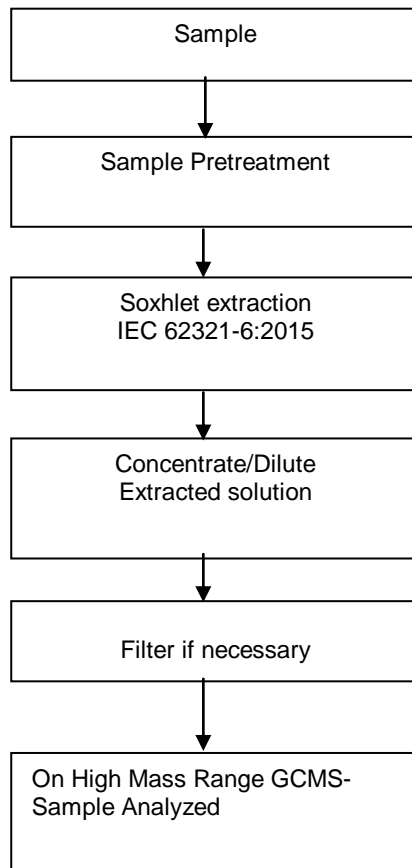


Analyzed By : K Kumar

Checked By : R Jaiganesh



Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample

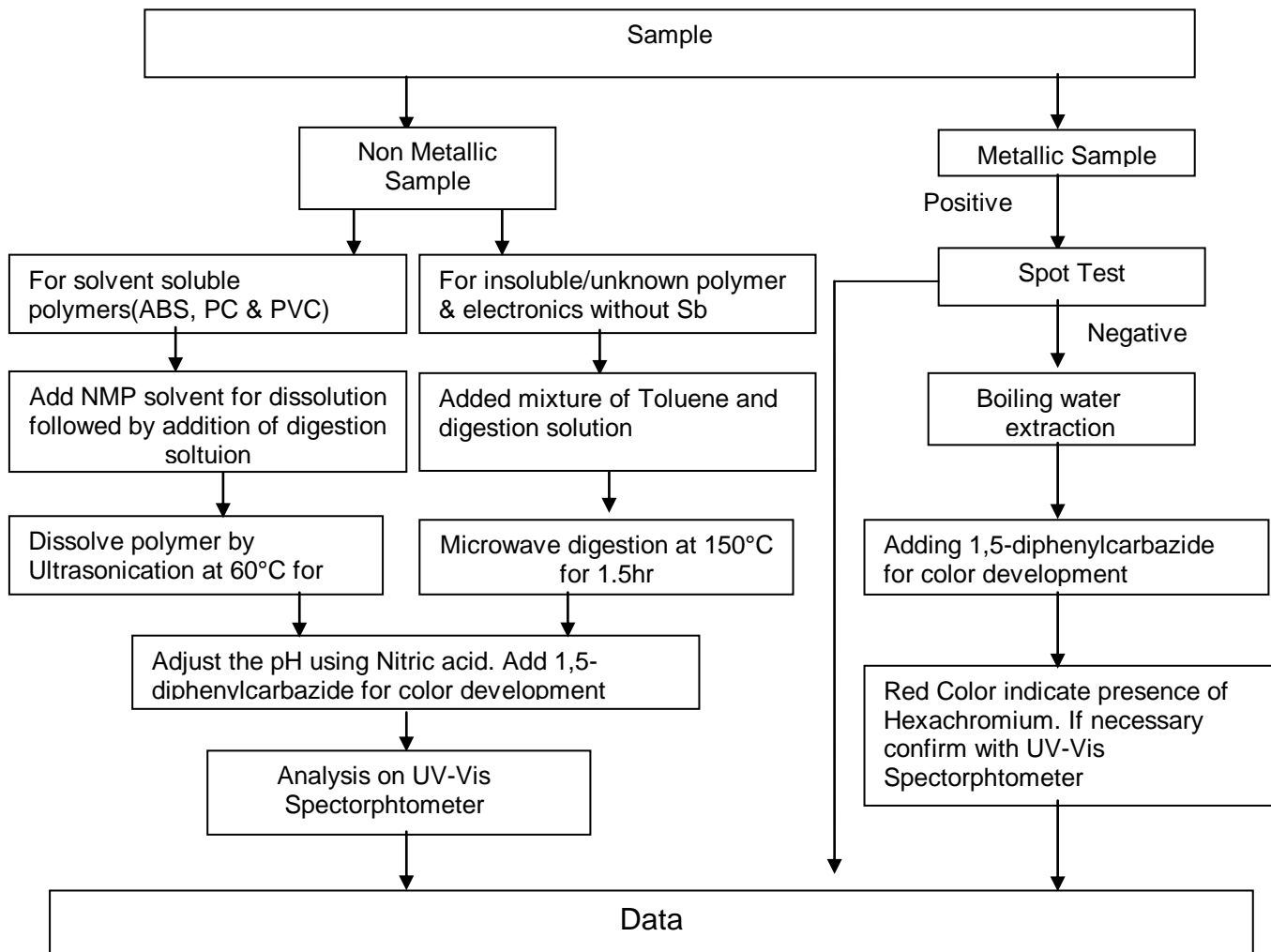


Analyzed By: Y.Kathiravan

Checked By : R Jaiganes



Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample

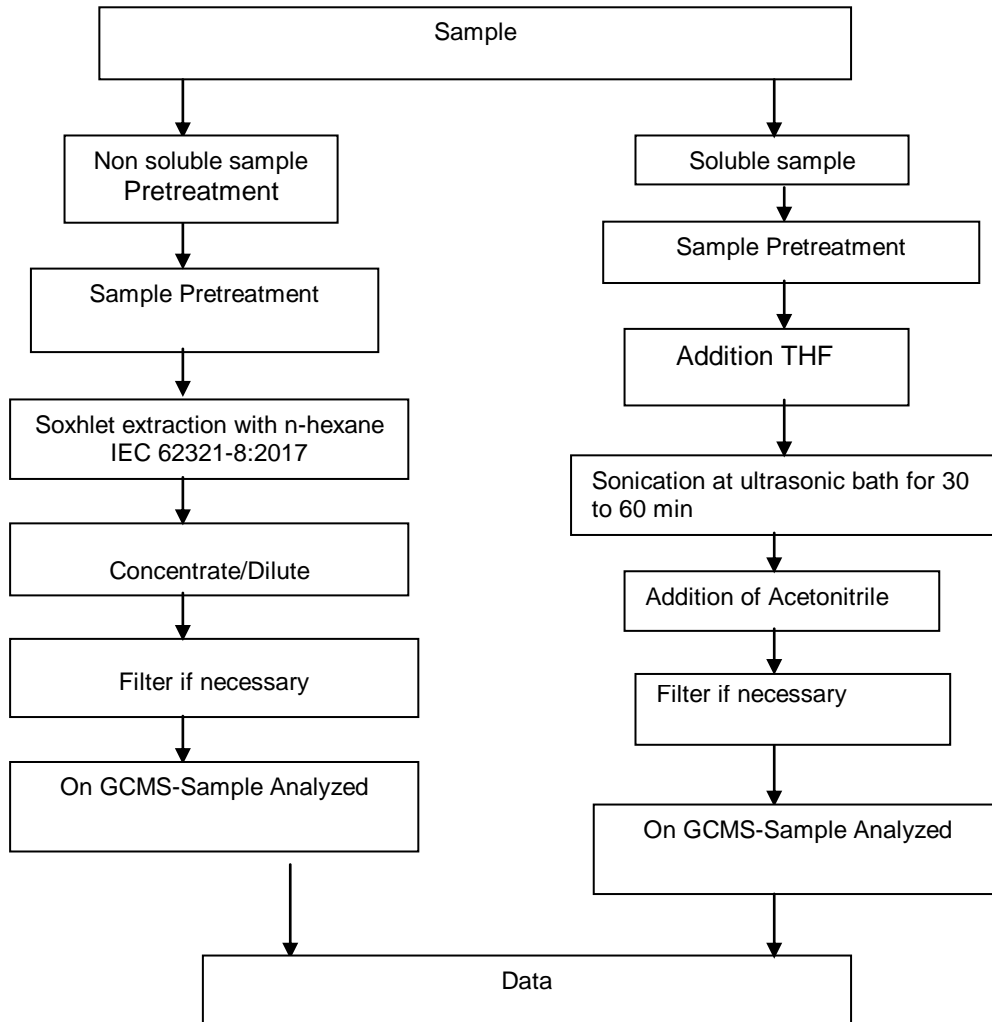


Analyzed By: S.Prasad

Checked By : R Jaiganesh



Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:



Analyzed By: Y.Kathiravan

Checked By : R Jaiganesh

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Sample Photo: as received



SGS authenticate the photo on original report only

*** End of Report ***