

TEST REPORT

Report No. : MAN:HL:1248005745

DATE : 09th September, 2021



MM BUILDTECH SOLUTIONS

405-A1, 6TH STREET EXTENSION, GANDHIPURAM,
COIMBATORE-641012
INDIA

CONTACT PERSON : F JEFFREY ANTONY

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION	M SQUARE UPVC PROFILE
COLOUR	WHITE
MATERIAL	UPVC
COUNTRY OF DESTINATION	INDIA
COUNTRY OF ORIGIN	INDIA
SAMPLE RECD ON	31/08/2021
TEST PERFORMING DATE	01/09/2021 TO 09/09/2021

SUMMARY OF TEST RESULT:

TEST REQUESTED	CONCLUSION
ROHS	Based on the performed tests on 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) (Refer to next page)

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S)

Per Pro SGS India Pvt. Ltd.



SANDIP BHUSHAN (Technical Manager)

Authorized Signatory

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

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Test Part Description:

Product No.	Sample No.	Material Description	Remarks
1	1	M SQUARE UPVC PROFILE	--

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.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3) With reference to IEC 62321-4:2013,+ A1:2017 determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.
- (5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
- (6) With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

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TEST RESULTS:

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

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Notes:

- (1) The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
- (2) If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
- (3) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (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) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (6) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.
- (7) Testing has been subcontracted to SGS Gurugram lab.
- (8) Testing has been performed as per client's request.

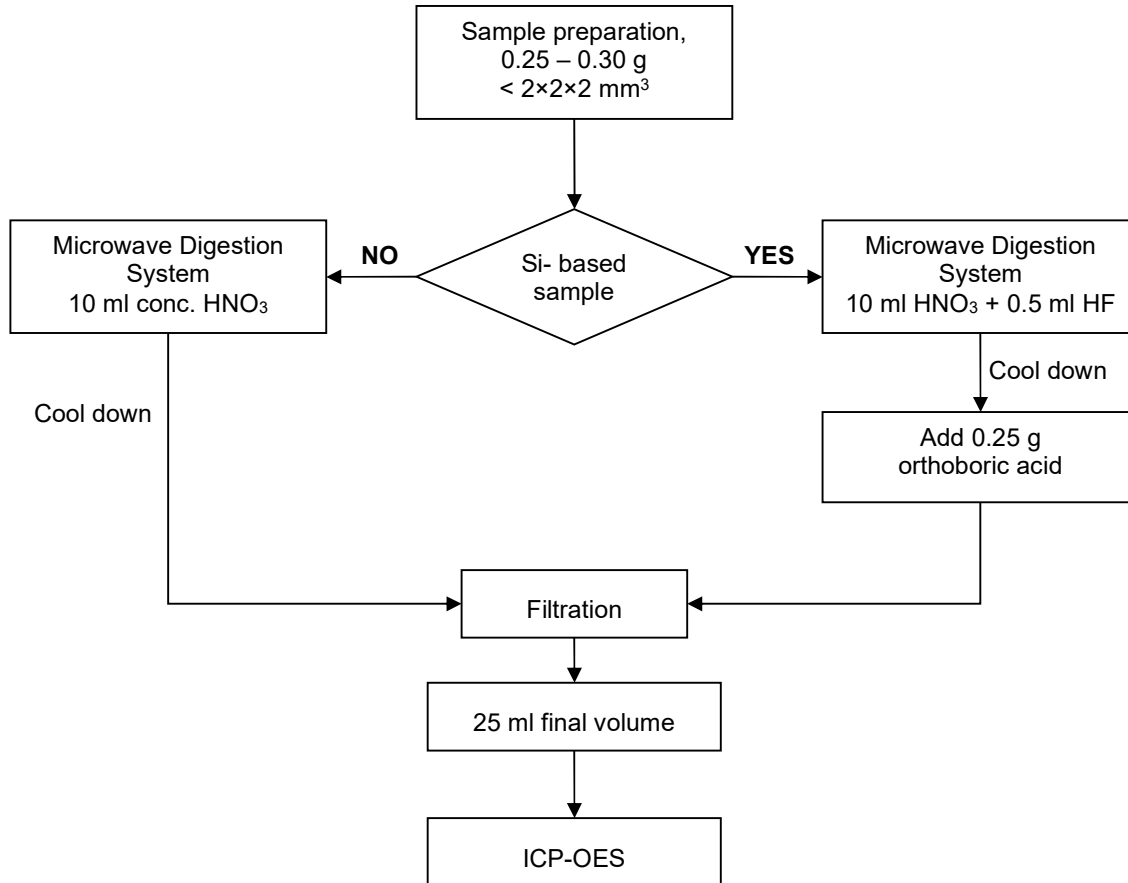
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Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analyzed By: MD.Taqi

Checked By: Kapil Patil

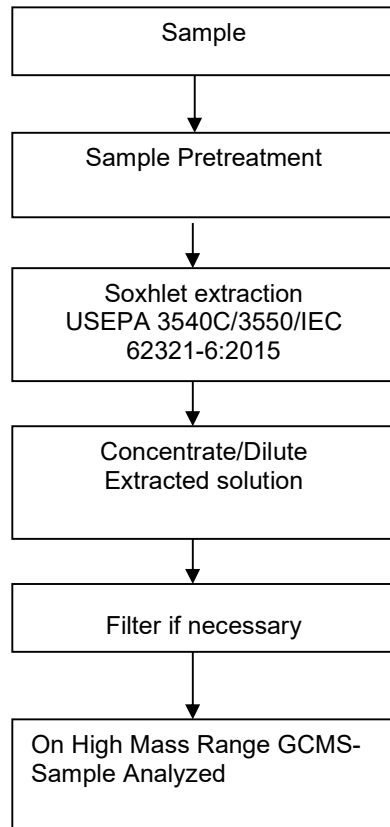
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Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analyzed By : Ravindra Sambhal

Checked By : Kapil Patil

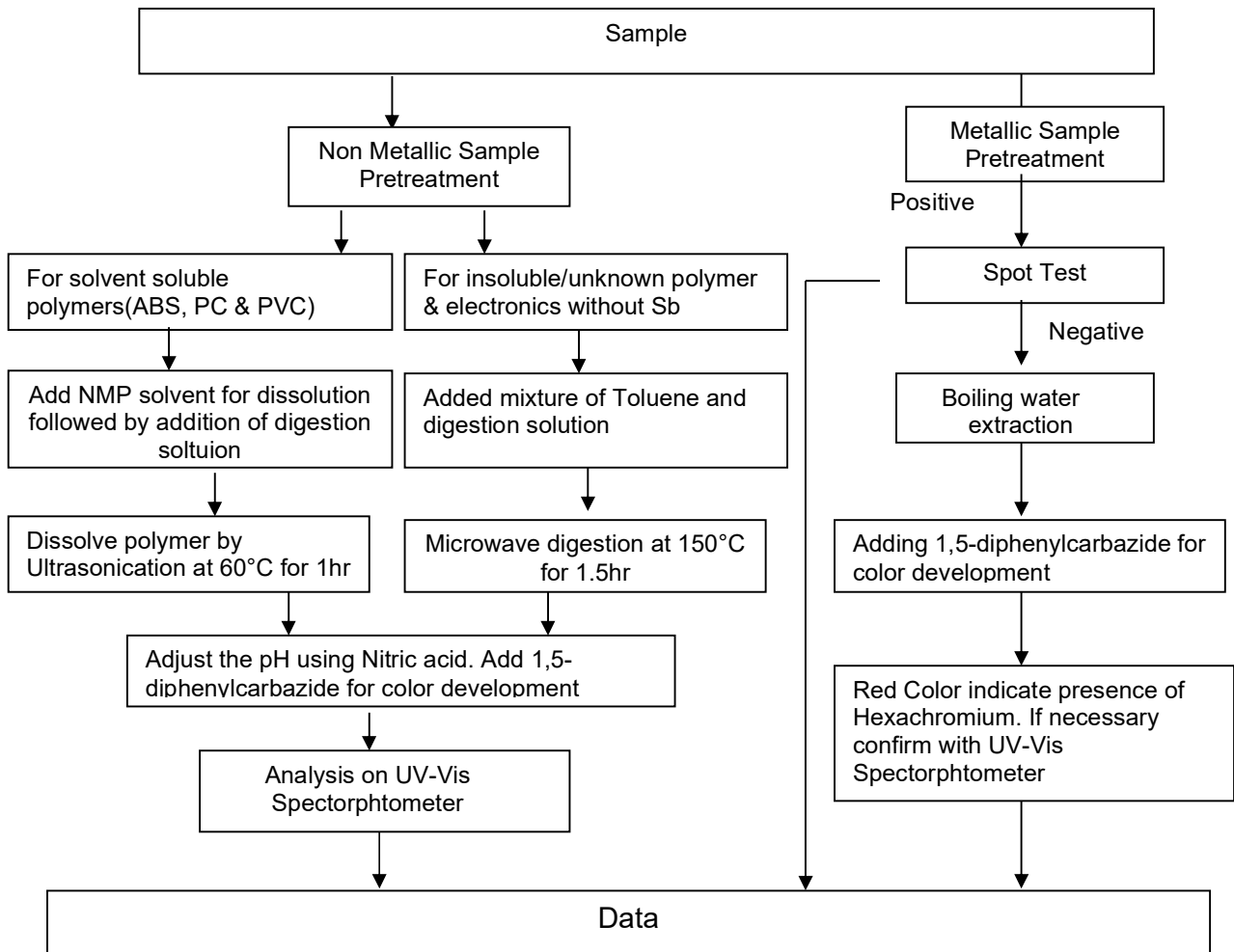
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Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample



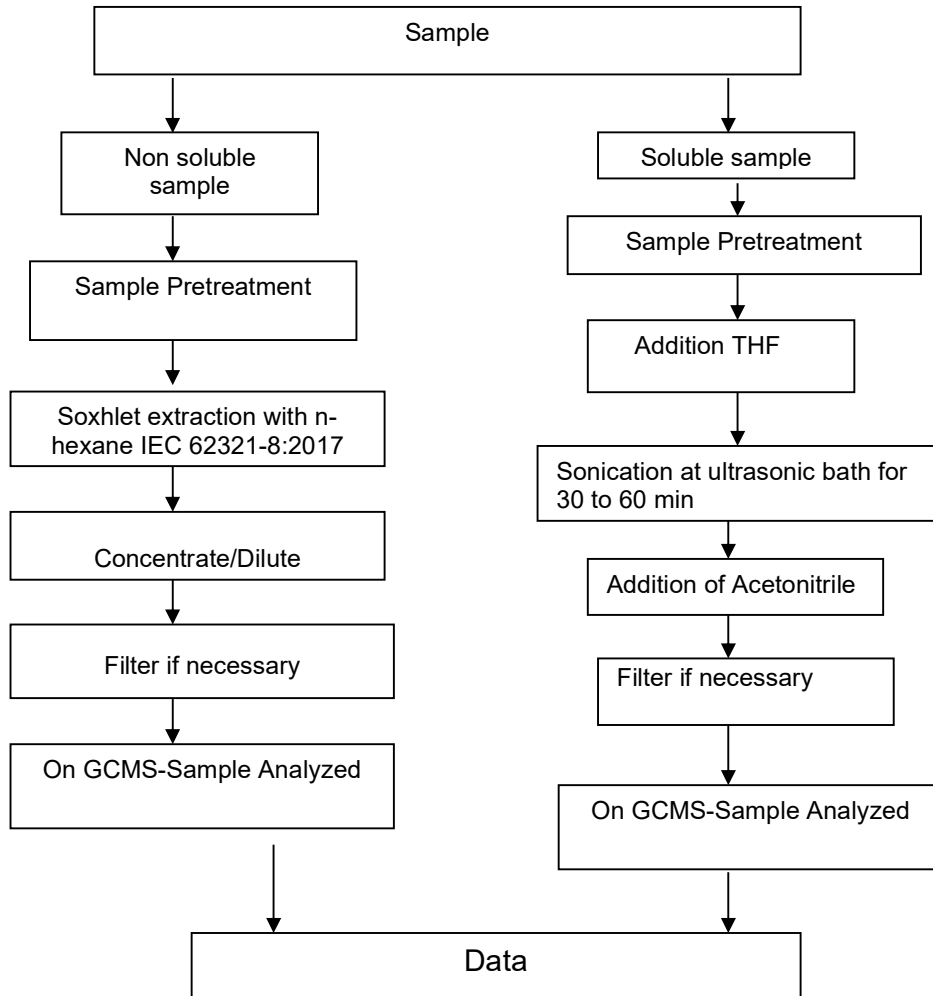
Analyzed By: MD.Taqi

Checked By: Kapil Patil



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

Extraction:



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Sample as Received



***** END OF REPORT*****