



ALP AEROFLEX INDIA PVT LIMITED

KHARSA NO 718,719,ALP POLYMAR PARK,ALWAR ROAD,VILLAGE
GUGALKOTA,SHAHJAHANPUR INDUSTRIAL AREA
ALWAR-301706

IN

CONTACT PERSON : VIKASH SINGH

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

SAMPLE DESCRIPTION PMMA SHEET (ACRYLIC SHEET)

COUNTRY OF ORIGIN INDIA

DATE OF SAMPLE REGISTRATION 21/02/2025

TESTING PERIOD : 25/02/2025 - 28/02/2025

TEST(S) REQUESTED ROHS (10 ELEMENTS) TEST

Test Request	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

Conclusion :Based on the performed tests on selected part of submitted sample 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 Di isobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Per Pro SGS India Private Ltd

Authorized Signatory

Jeevendra Sharma
(Technical Manager)

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

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Test results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
1	1653003890	PMMA SHEET (ACRYLIC SHEET)

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

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Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	5	n.d.
Mercury (Hg)	1000	mg/kg	5	n.d.
Cadmium (Cd)	100	mg/kg	5	n.d.
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	n.d.
Polybrominated biphenyls (PBB)	1000	mg/kg	-	n.d.
Monobrominated biphenyl (MonoBB)	-	mg/kg	50	n.d.
Dibrominated biphenyl (DiBB)	-	mg/kg	50	n.d.
Tribrominated biphenyl (TriBB)	-	mg/kg	50	n.d.
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	50	n.d.
Pentabrominated biphenyl (PentaBB)	-	mg/kg	50	n.d.
Hexabrominated biphenyl (HexaBB)	-	mg/kg	50	n.d.
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	50	n.d.
Octabrominated biphenyl (OctaBB)	-	mg/kg	50	n.d.
Nonabrominated biphenyl (NonaBB)	-	mg/kg	50	n.d.
Decabrominated biphenyl (DecaBB)	-	mg/kg	50	n.d.
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	n.d.
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	50	n.d.
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	50	n.d.
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	50	n.d.
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	50	n.d.
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	50	n.d.
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	50	n.d.
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	50	n.d.
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	50	n.d.
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	50	n.d.
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	50	n.d.
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	100	n.d.
Butyl benzyl phthalate (BBP)	1000	mg/kg	100	n.d.
Dibutyl phthalate (DBP)	1000	mg/kg	100	n.d.
Diisobutyl phthalate (DIBP)	1000	mg/kg	100	n.d.

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) 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

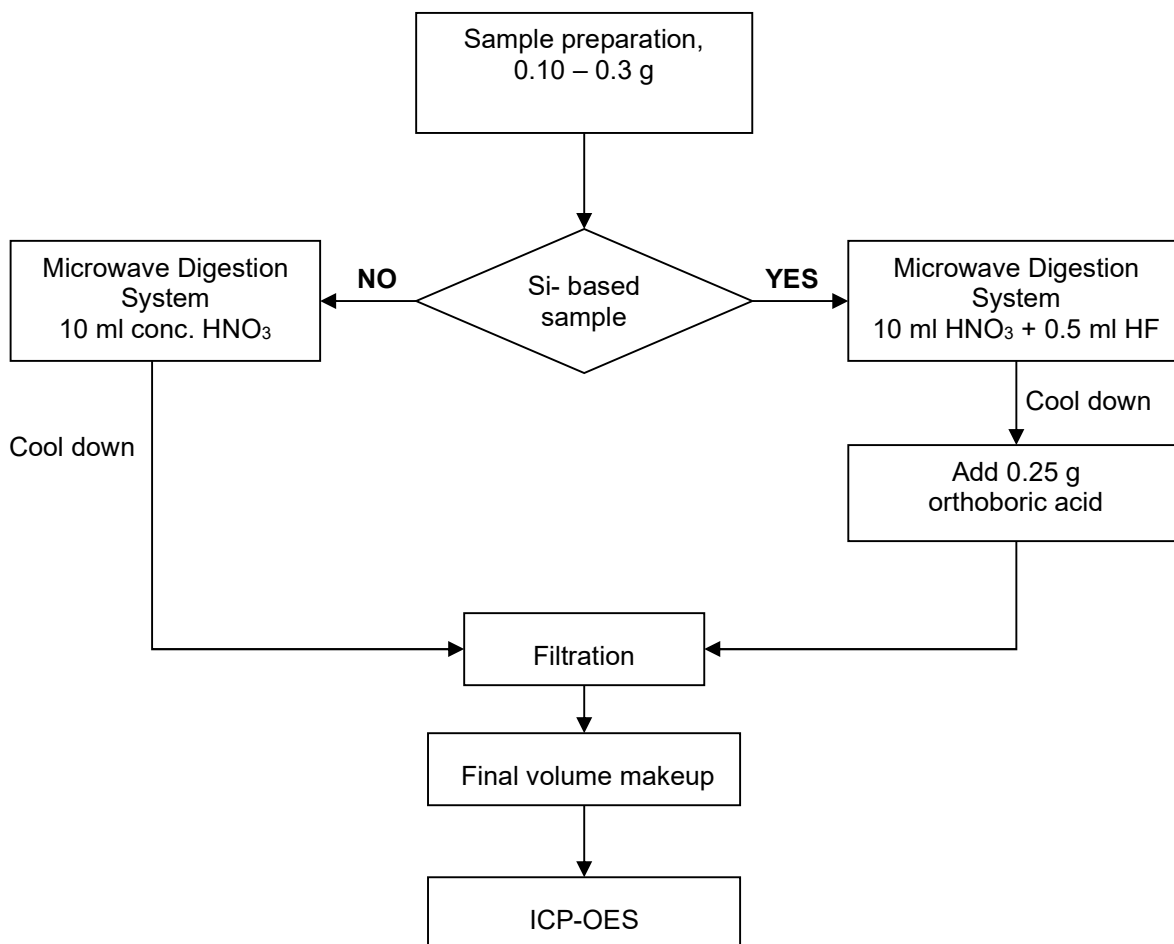
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Process Flow for analysis of metal contents in plastics, metals, and electronic components sample



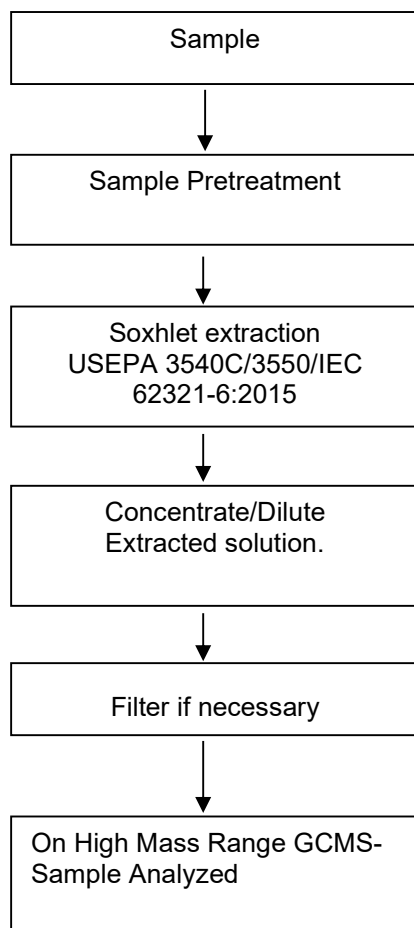
Tested By: Tanvi Tasedar
Chemist

Checked By: Sachin Vibhute
Sr. Executive

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

Tested By: Ashwini Sagar
Executive

Checked By: Sachin Vibhute
Sr. Executive

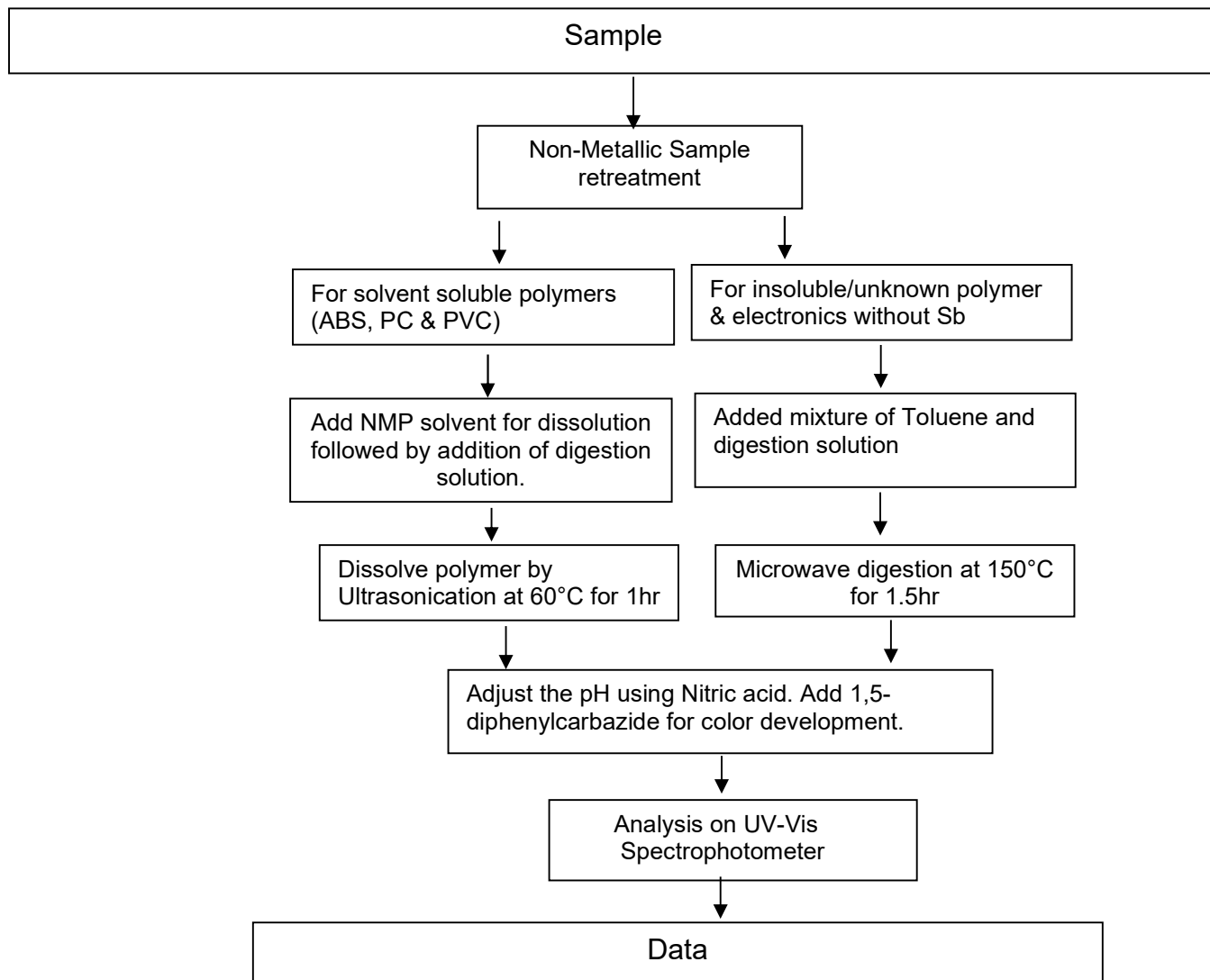
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Process Flow for analysis of Hexavalent Chromium contents in Plastics and electronic components sample



Tested By: Mangal Tambe
Chemist

Checked By: Sachin Vibhute
Sr. Executive

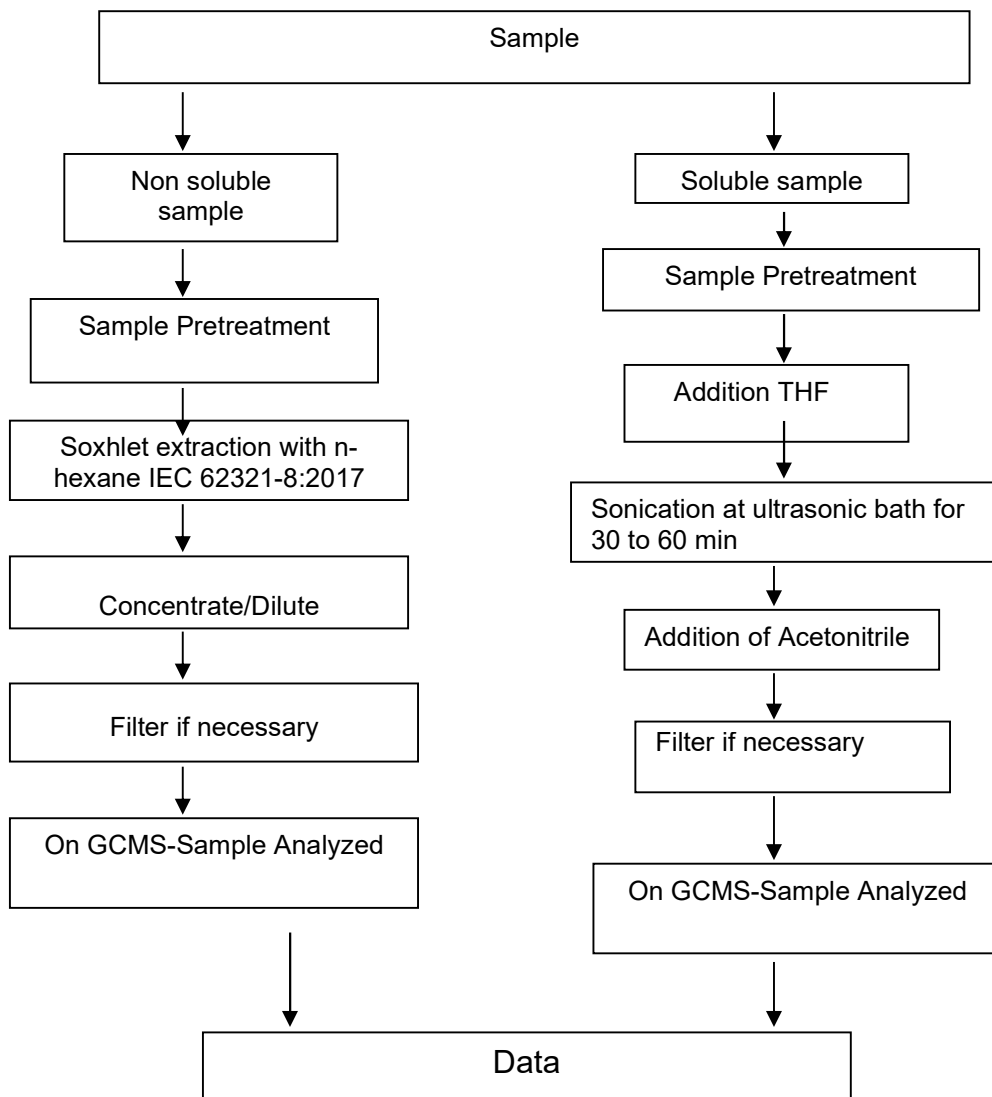
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Process Flow for analysis of Phthalates in Electrotechnical Product As per Soxhlet Extraction



Tested By: Shubhangi Bhote
Chemist

Checked By: Sachin Vibhute
Sr. Executive

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SGS authenticate the photo on original report only

Note : Test performed as per the conditions given by the customer.
Above test has been conducted at **SGS PUNE LAB**.

****End of Report****

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