



TC-5298



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### Test Report

Report No : TUV(I)/12454/23-24/0112301433  
ULR-TC529823000031216F

Date : 11 Nov 2023

Name and address of customer : Fujifilm Sericol India Pvt. Ltd.  
10/11, B. U. Bhandari Indl. Estate, Sanaswadi, Tal. Shirur,,  
Pune  
Pincode-412208

Reg No. : 12454/23-24

CA No. : 0112301433

Name of the sample : Mixed Inks IN - Sample Number -1

Batch No./ Code no. : Polyplast IN (IN-001, IN-002, IN-004, IN-010, IN-021, IN-022, IN-025, IN-026, IN-030, IN-044, IN-052, IN-064, IN-066, IN-114, IN-124, IN-126, IN-127, IN-133, IN-135, IN-137, IN-13716, IN-164, IN-165, IN-191, IN-201, IN-203, IN-204, IN-206, IN-215, IN-225, IN-230, IN-236, IN-283, IN-284, IN-325, IN-383, IN-385, IN-386, IN-396, IN-400, IN-425, IN-426, IN-427, IN-428, IN-433, IN-444, IN-461, IN-462, IN-463, IN-464, IN-481, IN-525, IN-526, IN-802, IN-821, IN-841, IN-843, IN-864, INA001, INA002, INA003, INA01C, INA02C, INA03C, INA052, INA236, INEL01, INEL02, INEL03, INR010, INR025, INR035, INR040, INR050)

Discipline : Chemical

Product Category : Inks, dyes & pigments

Date of sample receipt : 06 Nov 2023

Date(s) of analysis : 06 Nov 2023 - 11 Nov 2023

Sample drawn by : Customer

| Test Requested | Conclusion   |
|----------------|--|
| RoHS 10E       | 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) <b>comply</b> with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU |

Authorized by  
Atulkumar Rajage  
Manager - Instrumentation Department





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## Test Part Description:

| Product No. | Sample No. | Material Description             | Remarks |
|-------------|------------|----------------------------------|---------|
| -           | 1          | Mixed Inks IN - Sample Number -1 | -       |

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

## Test result:

| Sr. No. | Test Item(s):                       | Unit         | Results   | LOQ | Limit       |
|---------|-------------------------------------|--------------|-----------|-----|-------------|
| 1       | Cadmium(Cd)                         | mg/kg        | ND        | 10  | 100         |
| 2       | Lead (Pb)                           | mg/kg        | ND        | 10  | 1000        |
| 3       | Mercury (Hg)                        | mg/kg        | ND        | 10  | 1000        |
| 4       | Hexavalent Chromium (CrVI)          | mg/kg        | ND        | 10  | 1000        |
| 5       | <b>Sum of PBBs</b>                  | <b>mg/kg</b> | <b>ND</b> | -   | <b>1000</b> |
| 5.1     | Monobromobiphenyl                   | mg/kg        | ND        | 10  | -           |
| 5.2     | Dibromobiphenyl                     | mg/kg        | ND        | 10  | -           |
| 5.3     | Tribromobiphenyl                    | mg/kg        | ND        | 10  | -           |
| 5.4     | Tetrabromobiphenyl                  | mg/kg        | ND        | 10  | -           |
| 5.5     | Hexabromobiphenyl                   | mg/kg        | ND        | 10  | -           |
| 5.6     | Pentabromobiphenyl                  | mg/kg        | ND        | 10  | -           |
| 5.7     | Heptabromobiphenyl                  | mg/kg        | ND        | 10  | -           |
| 5.8     | Octabromobiphenyl                   | mg/kg        | ND        | 10  | -           |
| 5.9     | Nonabromobiphenyl                   | mg/kg        | ND        | 10  | -           |
| 5.10    | Decabromobiphenyl                   | mg/kg        | ND        | 10  | -           |
| 6       | <b>Sum of PBDEs</b>                 | <b>mg/kg</b> | <b>ND</b> | -   | <b>1000</b> |
| 6.1     | Monobromodiphenyl ether             | mg/kg        | ND        | 10  | -           |
| 6.2     | Dibromodiphenyl ether               | mg/kg        | ND        | 10  | -           |
| 6.3     | Tribromodiphenyl ether              | mg/kg        | ND        | 10  | -           |
| 6.4     | Tetrabromodiphenyl ether            | mg/kg        | ND        | 10  | -           |
| 6.5     | Pentabromodiphenyl ether            | mg/kg        | ND        | 10  | -           |
| 6.6     | Hexabromodiphenyl ether             | mg/kg        | ND        | 10  | -           |
| 6.7     | Heptabromodiphenyl ether            | mg/kg        | ND        | 10  | -           |
| 6.8     | Octabromodiphenyl ether             | mg/kg        | ND        | 10  | -           |
| 6.9     | Nonabromodiphenyl ether             | mg/kg        | ND        | 10  | -           |
| 6.10    | Decabromodiphenyl ether             | mg/kg        | ND        | 10  | -           |
|         | <b>Phthalates</b>                   |              |           |     |             |
| 7       | Dibutyl phthalate (DBP)             | mg/kg        | ND        | 50  | 1000        |
| 8       | Butyl benzyl phthalate (BBP)        | mg/kg        | ND        | 50  | 1000        |
| 9       | Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg        | ND        | 50  | 1000        |
| 10      | Diisobutyl Phthalates (DIBP)        | mg/kg        | ND        | 50  | 1000        |



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**Remarks :**

- 1 1mg/kg=0.0001%
- 2 LOQ = Limit of Quantification
- 3 ND = Not Detected (<LOQ)
- 4 - = not regulated

**Test Method:**

- 1 TUV/03/SOP/027 Based on IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- 2 TUV/03/SOP/027 Based on IEC 62321-5:2013, determination of Lead by ICP-OES.
- 3 TUV/03/SOP/027 Based on IEC 62321-4:2013, determination of Mercury by ICP-OES.
- 4 TUV/03/SOP/028 IEC 62321-7-2 : 2017 Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method , determination of Chromium by ICP-OES.
- 5 TUV/03/SOP/029 Based on IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 6 TUV/03/SOP/029 Based on IEC 62321-8:2017, determination of phthalates by GC-MS.

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
- [http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) Test has been performed as per client's request
- (3) 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.
- (4) If the Chromium (Cr) content is greater than the MDL of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
- (5) 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.
- (6) 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.
- (7) 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.
- (8) 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.



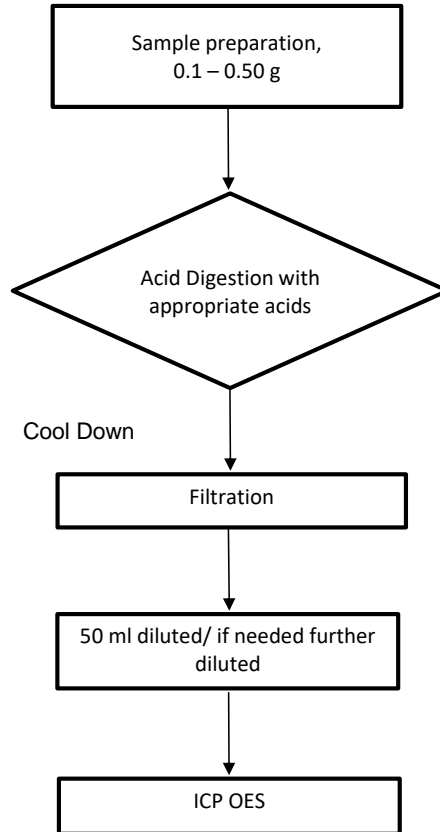
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Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analysed By  
Jr. Analyst

Checked By  
Sr. Analyst



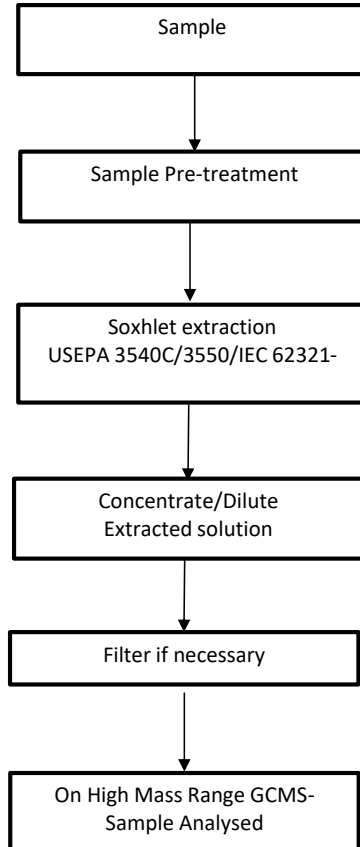
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**Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample**



**Analysed By**  
Jr. Analyst

**Checked By**  
Sr. Analyst



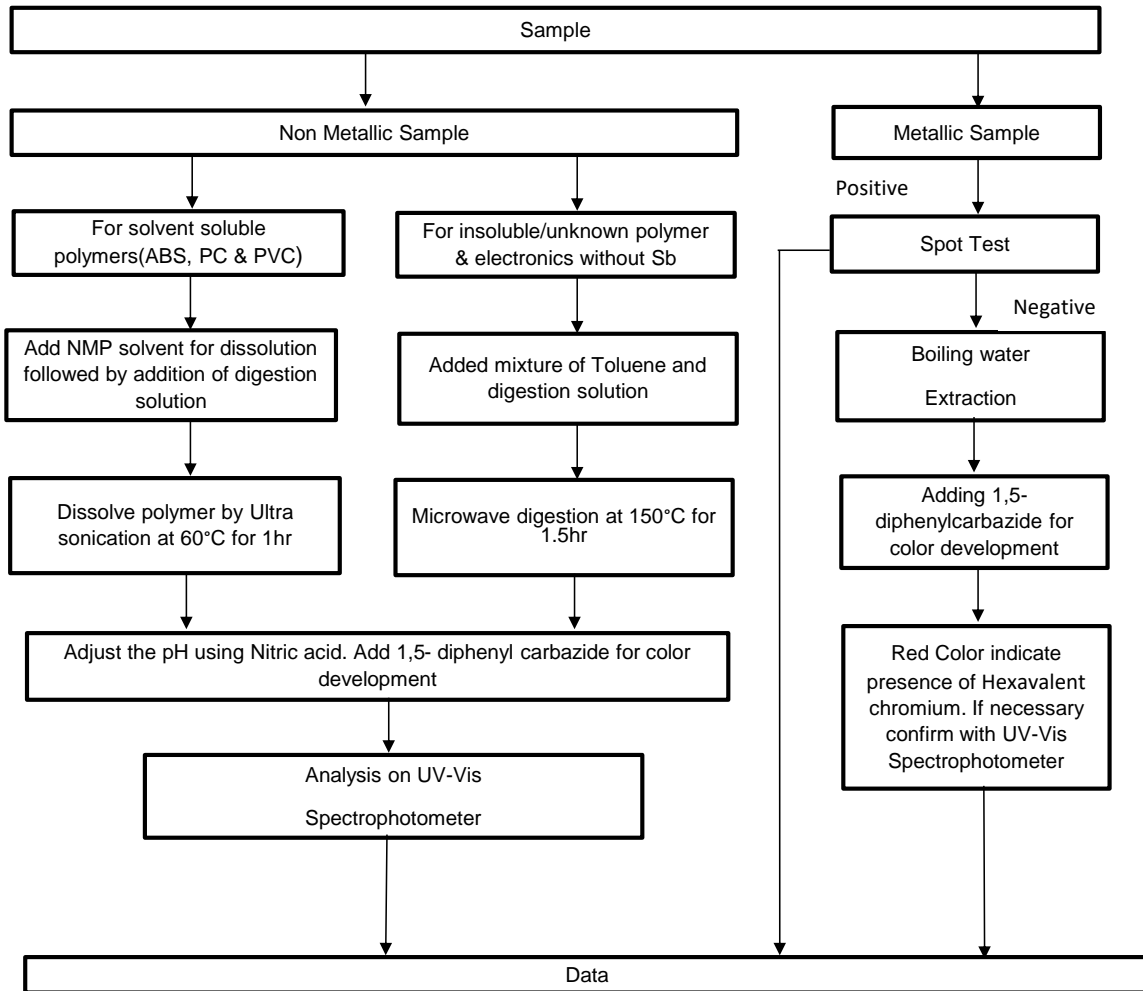
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**Process Flow for analysis of Hexavalent chromium contents in plastics, metals and electronic components sample**



**Analysed By**  
Jr. Analyst

**Checked By**  
Sr. Analyst



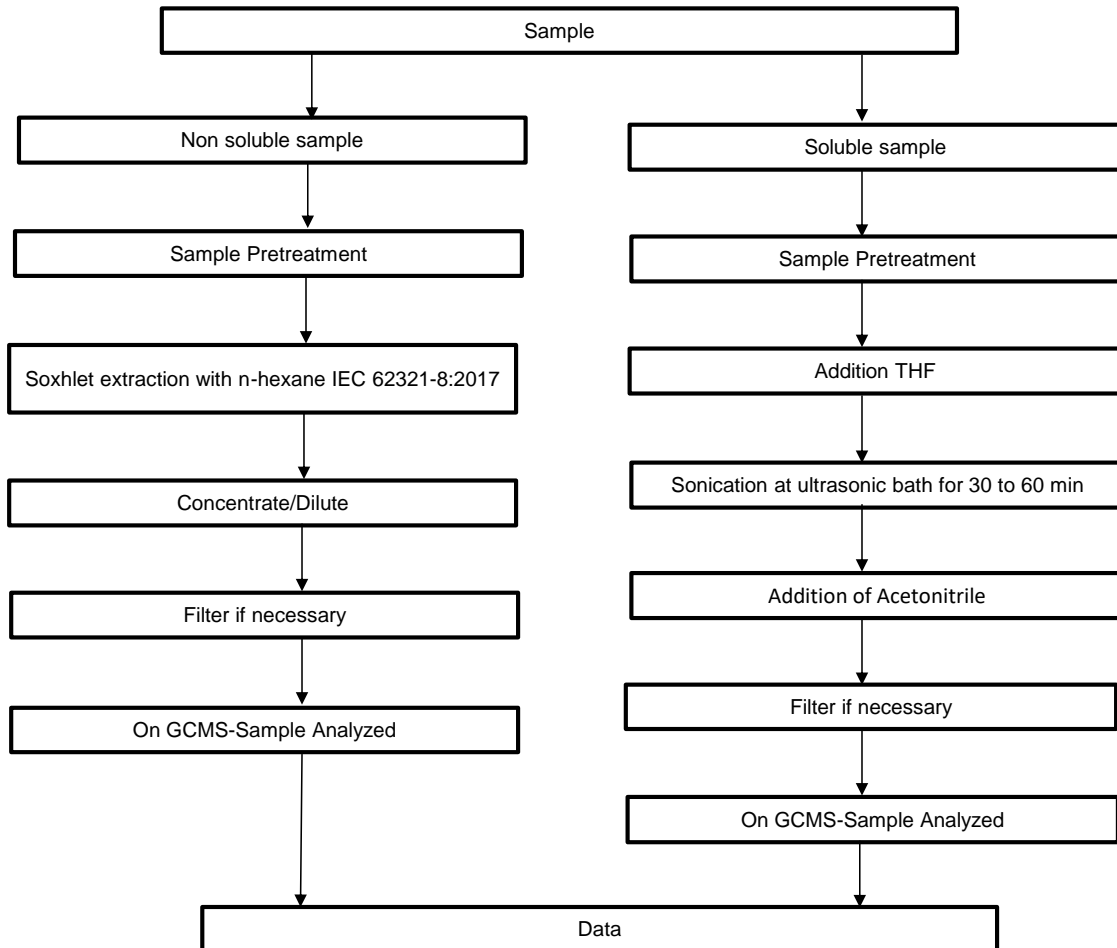
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**Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:**



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Jr. Analyst

**Checked By**  
Sr. Analyst



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**Atulkumar Rajage**  
**Manager - Instrumentation Department**

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-- End of Report --