



TC-5298



Test Report

Report No : TUV(I)/11935/23-24/0102306524  
ULR-TC529823000031099F

Date : 10 Nov 2023

TUV INDIA PRIVATE LIMITED

TUV India House  
Survey No.: 42, 3/1 & 3/2,  
Sus, Tal. Mulshil,  
Dist. Pune - 411 021  
CIN : U74140MH1989PTC052930  
Tel : 020-67900000/01  
Toll free : 1800-209-0902  
Email : pune@tuv-nord.com  
Website : www.tuv-nord.com/in

Name and address of customer : BAGLA POLIFILMS LIMITED  
SURVEY NO. 380, WESTERN PART,  
VILLAGE BHADRESHWAR, TEHSIL MUNDRA, Kachchh, Gujarat,  
Pin Code: 370410

Reg No. : 11935/23-24

CA No. : 0102306524

Name of the sample : POF SHRINK FILM

Batch No./ Code no. : -

Discipline : Chemical

Product Category : Plastic & Resins

Date of sample receipt : 21 Oct 2023

Date(s) of analysis : 27 Oct 2023 - 10 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	POF SHRINK FILM	-

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>-</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>-</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

R.Y.





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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 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.

*R. G.*





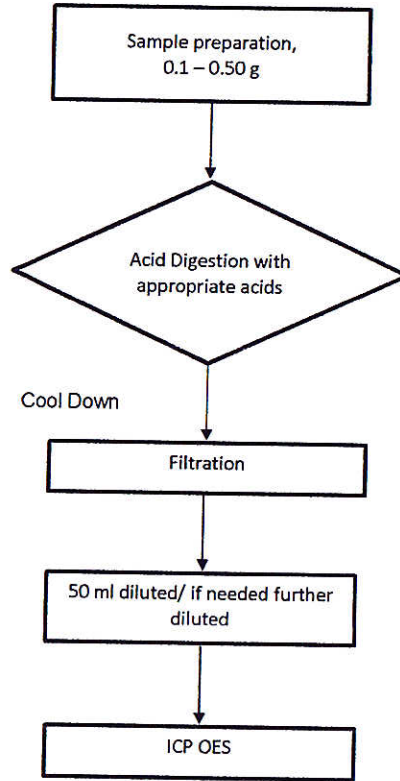
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Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analysed By  
Jr. Analyst

Checked By  
Sr. Analyst





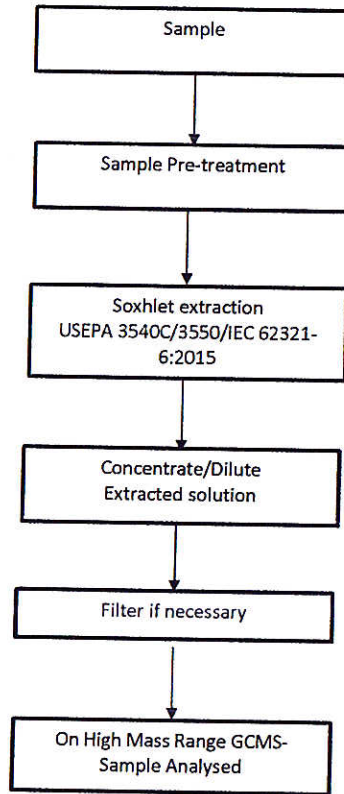
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Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



Analysed By  
Jr. Analyst

Checked By  
Sr. Analyst





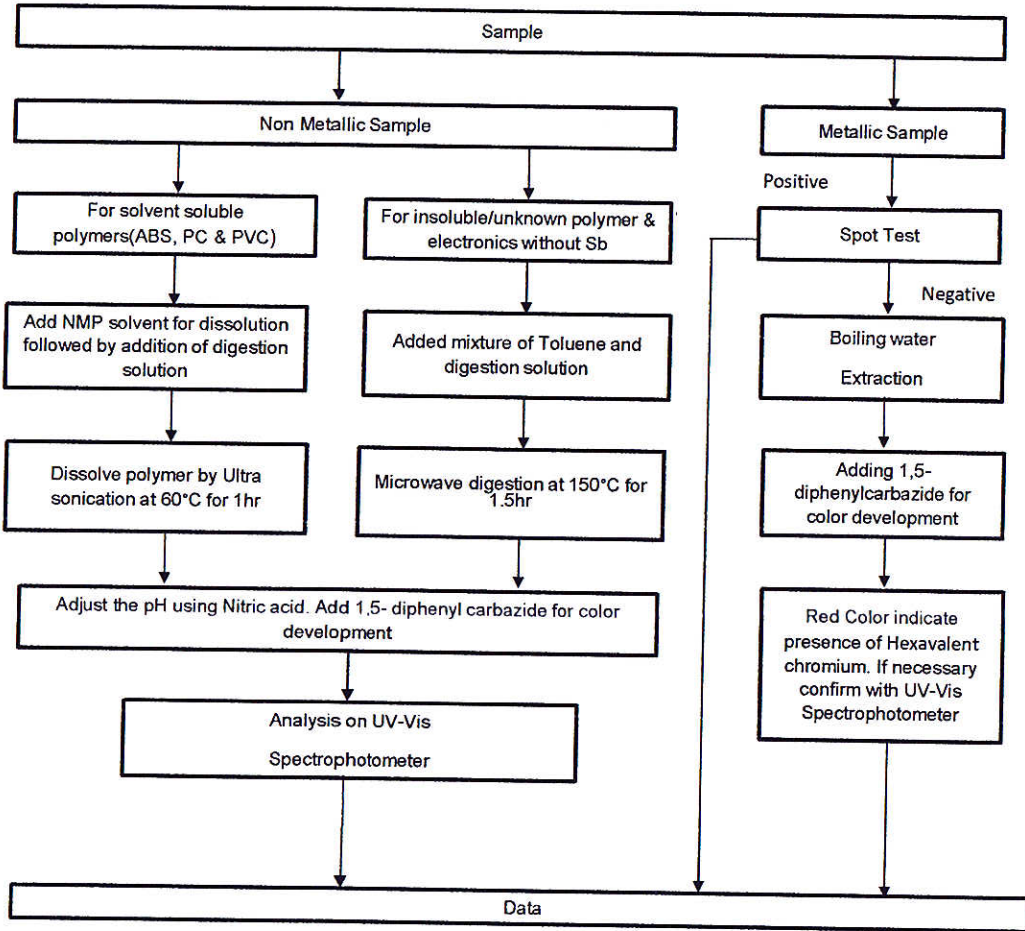
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Process Flow for analysis of Hexavalent chromium contents in plastics, metals and electronic components sample



Analysed By  
Jr. Analyst

Checked By  
Sr. Analyst





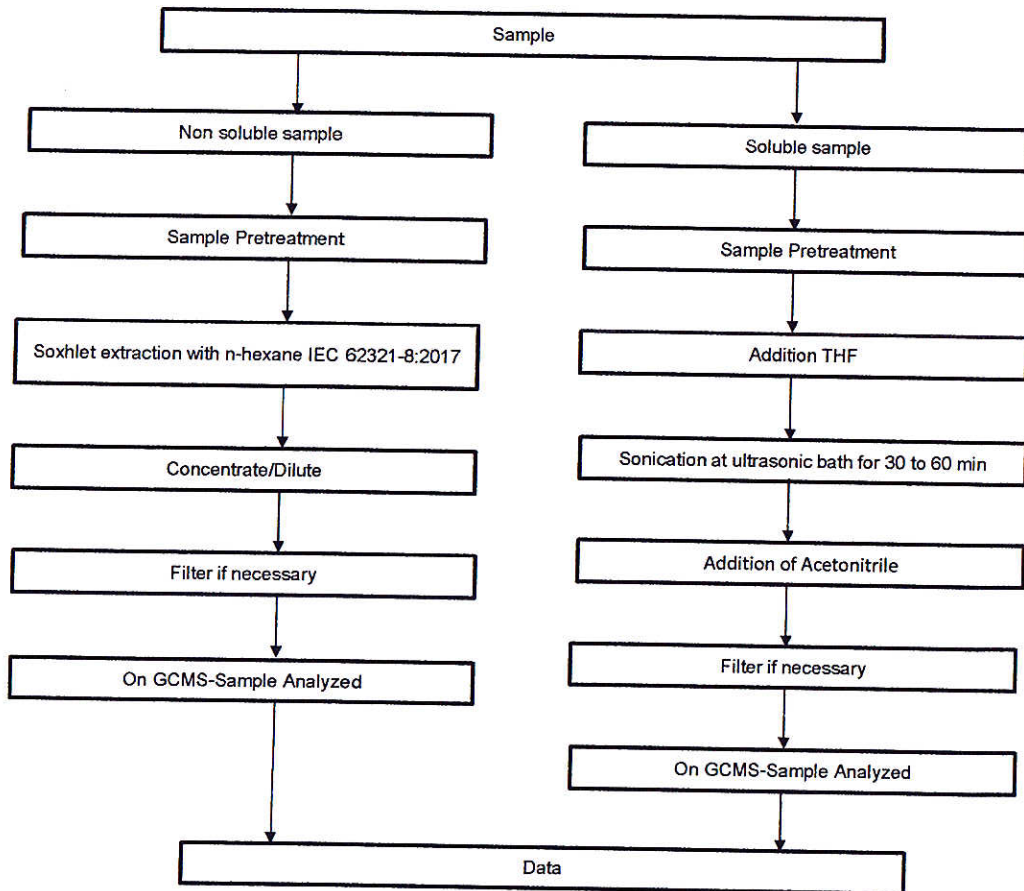
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**Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF Extraction:**



**Analysed By**  
Jr. Analyst

**Checked By**  
Sr. Analyst





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

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