

No. : CE/2020/12368

Date : 2020/01/16

Page : 1 of 7

SUMI-PAC CORPORATION

NO. 15, KON YE 5 RD., FON SAN TSUEN, FU KOW SHAN, HSIN-CHU HSIEN, TAIWAN, R. O. C.

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

Sample Submitted By	: SUMI-PAC CORPORATION
Sample Description	: PLASTIC TUBE
Style/Item No	: SUMITUBE F32 ( = SUMITUBE F34 , IRRAXTUBE F32A , SUMITUBE F(Z) ,
	SUMITUBE F2(Z) , K32 , KF32 )
Sample Receiving Date	: 2020/01/09
Testing Period	: 2020/01/09 to 2020/01/16

- Test Requested: As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive<br/>(EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP,<br/>DEHP, DIBP contents in the submitted sample(s).Test Method: Please refer to following pages.Test Result(s): Please refer to following pages.
- Conclusion
- Please refer to following pages.
  Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by

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

Troy Chang / Manager - Viec Signed for and behalf of SGS TAIWAN LTD. Chemical Laboratory - Taipei





No. : CE/2020/12368

Date : 2020/01/16

Page : 2 of 7

SUMI-PAC CORPORATION

NO. 15, KON YE 5 RD., FON SAN TSUEN, FU KOW SHAN, HSIN-CHU HSIEN, TAIWAN, R. O. C.

### Test Result(s)

PART NAME No.1

#### : BLACK PLASTIC TUBE WITH WHITE PRINTED

Tost Itom(s)	Unit	Method	MDL	Result No.1	Limit
Test Item(s)					
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	22.2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321- 4:2013+AMD1:2017 and performed by ICP-OES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n.d.	1000
Sum of PBBs	mg/kg		-	n.d.	1000
Monobromobiphenyl	mg/kg		5	n.d.	-
Dibromobiphenyl	mg/kg		5	n.d.	-
Tribromobiphenyl	mg/kg		5	n.d.	-
Tetrabromobiphenyl	mg/kg	<b>]</b> [	5	n.d.	-
Pentabromobiphenyl	mg/kg	7	5	n.d.	-
Hexabromobiphenyl	mg/kg	7	5	n.d.	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6	5	n.d.	-
Octabromobiphenyl	mg/kg		5	n.d.	-
Nonabromobiphenyl	mg/kg		5	n.d.	-
Decabromobiphenyl	mg/kg		5	n.d.	-
Sum of PBDEs	mg/kg	(2015) and performed by GC/MS.	-	n.d.	1000
Monobromodiphenyl ether	mg/kg	7	5	n.d.	-
Dibromodiphenyl ether	mg/kg		5	n.d.	-
Tribromodiphenyl ether	mg/kg		5	n.d.	-
Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether	mg/kg		5	n.d.	-
Heptabromodiphenyl ether	mg/kg		5	n.d.	-
Octabromodiphenyl ether	mg/kg		5	n.d.	-
Nonabromodiphenyl ether	mg/kg		5	n.d.	-
Decabromodiphenyl ether	mg/kg		5	n.d.	-

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No. : CE/2020/12368

Date : 2020/01/16

Page : 3 of 7

SUMI-PAC CORPORATION

NO. 15, KON YE 5 RD., FON SAN TSUEN, FU KOW SHAN, HSIN-CHU HSIEN, TAIWAN, R. O. C.

Test Item(s)	Unit	Method	MDL	Result	Limit
Test tient(s)				No.1	
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg With reference to IEC 62321-8		50	n.d.	1000
DBP (Dibutyl phthalate) (CAS No.: mg. 34-74-2)		(2017). Analysis was performed by GC/MS.	50	n.d.	1000
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n.d.	1000

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected = below MDL

4. " - " = Not Regulated



No. : CE/2020/12368

Date : 2020/01/16

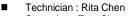
Page: 4 of 7

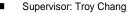
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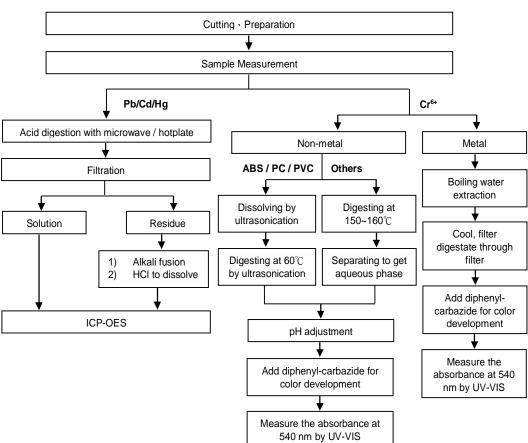
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#### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)









No. : CE/2020/12368

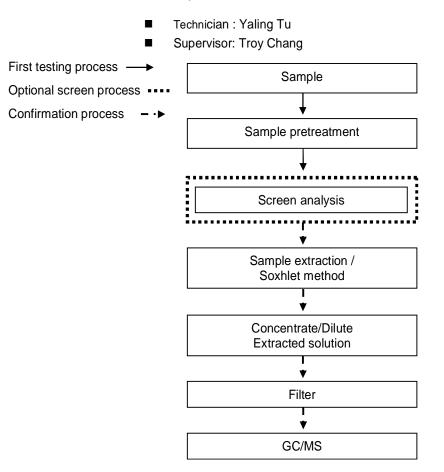
Date : 2020/01/16

Page: 5 of 7

SUMI-PAC CORPORATION

NO. 15, KON YE 5 RD., FON SAN TSUEN, FU KOW SHAN, HSIN-CHU HSIEN, TAIWAN, R. O. C.

#### Analytical flow chart - PBB / PBDE





No. : CE/2020/12368

Date : 2020/01/16

Page : 6 of 7

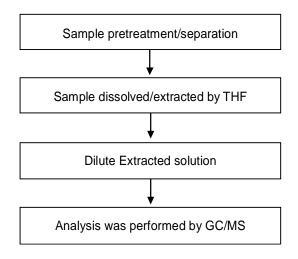
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#### Analytical flow chart - Phthalate

- Technician: Yaling Tu
- Supervisor: Troy Chang

[Test method: IEC 62321-8]





No. : CE/2020/12368

Date : 2020/01/16

Page: 7 of 7

SUMI-PAC CORPORATION

NO. 15, KON YE 5 RD., FON SAN TSUEN, FU KOW SHAN, HSIN-CHU HSIEN, TAIWAN, R. O. C.

### \* The tested sample / part is marked by an arrow if it's shown on the photo. \*



CE/2020/12368

\*\* End of Report \*\*