



Test Report

No.T32420250093TC

Date: Jan 15, 2024

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POLYKOTE INK & PAINT (SHENZHEN) LTD.
NO. 118, HUANG PU ROAD, SHAJING SUBDISTRICT, BAOAN, SHENZHEN, CHINA (ZIP
CODE: 518125)

The following samples were submitted and identified by/on behalf of the client as:
PLEASE SEE ATTACHMENT

STYROLAC PAINT & INK NO :	PAINT & INK COLOR:
6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M	WHITIE / BLACK / FLUORESCENT COLOR
6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M	ORANGE / RED / MAGENTA / BROWN
6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M	YELLOW
6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M	GREEN / BLUE / VIOLET
T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853	SILVER / PEARL W/ LACQUER

Case No. : CA324202503449
Sample Receiving Date : JAN 03, 2024
Testing Period : JAN 03, 2024 – JAN 15, 2024

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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements (All conclusive testing)	PASS
2.	ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content	--
2.1	Heavy Elements content in paint or similar surface coating materials in submitted sample in accordance with ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.1	PASS
3.	CPSIA section 101 - Total Lead content	--
3.1	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
4.	EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical for Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content	PASS
5.	EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Phthalates Content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.




To Man Wah, Po
Technical Manager

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Test Results:
1. Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements
Category III: Scraped-off toy material

Method: With reference to EN71-3:2019 + A1:2021. Analysis of general elements was performed by ICP-OES. / ICP-MS. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
	1	2	3		
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	178	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000

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Test Item(s)	Result(s)		MDL	Permissible Limit
	4	5		
Specimen No.	4	5	--	--
Mass of trace amount (mg)	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	1	2	3	
Methyl tin (MeT)	ND	ND	ND	0.3
Di-n-propyl tin (DProT)	ND	ND	ND	0.3
Dimethyl tin (DMT)	ND	ND	ND	0.3
Butyl tin (BuT)	ND	ND	ND	0.3
Dibutyl tin (DBT)	ND	ND	ND	0.3
Tributyl tin (TBT)	ND	ND	ND	0.3
n-Octyl tin (MOT)	ND	ND	ND	0.3
Tetrabutyl tin (TeBT)	ND	ND	ND	0.3
Diphenyl tin (DPhT)	ND	ND	ND	0.3
Di-n-octyl tin (DOT)	ND	ND	ND	0.3
Triphenyl tin (TPhT)	ND	ND	ND	0.3

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	4	5	
Methyl tin (MeT)	ND	ND	0.3
Di-n-propyl tin (DProT)	ND	ND	0.3
Dimethyl tin DMT	ND	ND	0.3
Butyl tin (BuT)	ND	ND	0.3
Dibutyl tin (DBT)	ND	ND	0.3
Tributyl tin (TBT)	ND	ND	0.3
n-Octyl tin (MOT)	ND	ND	0.3
Tetrabutyl tin (TeBT)	ND	ND	0.3
Diphenyl tin (DPhT)	ND	ND	0.3
Di-n-octyl tin (DOT)	ND	ND	0.3
Triphenyl tin (TPhT)	ND	ND	0.3

Specimen Description:

1. Yellow paint (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)
2. Pearl flesh paint (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)
3. Navy paint (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)
4. Orange paint (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)
5. Red paint (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN71-3:2019 + A1:2021, results shown only for reference

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2.1 ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)
MDL (ppm)	10
Total Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Yellow paint (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)	ND
2. Pearl flesh paint (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)	ND
3. Navy paint (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)	ND
4. Orange paint (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)	ND
5. Red paint (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)	ND

Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)	5	5	2.5	10	5	5	5	10
Migration Limit (ppm)	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)						
1	/	ND	ND	ND	ND	ND	ND	ND
2	/	ND	ND	ND	ND	ND	ND	ND
3	/	ND	ND	ND	ND	ND	ND	ND
4	/	ND	ND	ND	ND	ND	ND	ND
5	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- Yellow paint (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)
- Pearl flesh paint (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)
- Navy paint (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)
- Orange paint (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)
- Red paint (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)

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3.1 CPSIA - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)	Lead (Pb)
Permissible Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Yellow paint (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)	ND
2. Pearl flesh paint (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)	ND
3. Navy paint (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)	ND
4. Orange paint (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)	ND
5. Red paint (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

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4. EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical for Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC 62321-7-2:2017, IEC62321-6:2015

For Lead, Cadmium and Mercury, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Hexavalent Chromium, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

For PBBs & PBDEs, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	1	2	3		
Lead (Pb)	ND	ND	ND	2	1000
Cadmium(Cd)	ND	ND	ND	2	100
Mercury (Hg)	ND	ND	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	ND	ND	ND	8	1000
Sum of PBBs	ND	ND	ND	--	1000
Monobromobiphenyl	ND	ND	ND	5	--
Dibromobiphenyl	ND	ND	ND	5	--
Tribromobiphenyl	ND	ND	ND	5	--
Tetrabromobiphenyl	ND	ND	ND	5	--
Pentabromobiphenyl	ND	ND	ND	5	--
Hexabromobiphenyl	ND	ND	ND	5	--
Heptabromobiphenyl	ND	ND	ND	5	--
Octabromobiphenyl	ND	ND	ND	5	--
Nonabromobiphenyl	ND	ND	ND	5	--
Decabromobiphenyl	ND	ND	ND	5	--
Sum of PBDEs	ND	ND	ND	--	1000
Monobromodiphenyl ether	ND	ND	ND	5	--
Dibromodiphenyl ether	ND	ND	ND	5	--
Tribromodiphenyl ether	ND	ND	ND	5	--
Tetrabromodiphenyl ether	ND	ND	ND	5	--
Pentabromodiphenyl ether	ND	ND	ND	5	--
Hexabromodiphenyl ether	ND	ND	ND	5	--
Heptabromodiphenyl ether	ND	ND	ND	5	--
Octabromodiphenyl ether	ND	ND	ND	5	--
Nonabromodiphenyl ether	ND	ND	ND	5	--
Decabromodiphenyl ether	ND	ND	ND	5	--
Comment	PASS	PASS	PASS	--	--

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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	4	5		
Lead (Pb)	ND	ND	2	1000
Cadmium(Cd)	ND	ND	2	100
Mercury (Hg)	ND	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	ND	ND	8	1000
Sum of PBBs	ND	ND	--	1000
Monobromobiphenyl	ND	ND	5	--
Dibromobiphenyl	ND	ND	5	--
Tribromobiphenyl	ND	ND	5	--
Tetrabromobiphenyl	ND	ND	5	--
Pentabromobiphenyl	ND	ND	5	--
Hexabromobiphenyl	ND	ND	5	--
Heptabromobiphenyl	ND	ND	5	--
Octabromobiphenyl	ND	ND	5	--
Nonabromobiphenyl	ND	ND	5	--
Decabromobiphenyl	ND	ND	5	--
Sum of PBDEs	ND	ND	--	1000
Monobromodiphenyl ether	ND	ND	5	--
Dibromodiphenyl ether	ND	ND	5	--
Tribromodiphenyl ether	ND	ND	5	--
Tetrabromodiphenyl ether	ND	ND	5	--
Pentabromodiphenyl ether	ND	ND	5	--
Hexabromodiphenyl ether	ND	ND	5	--
Heptabromodiphenyl ether	ND	ND	5	--
Octabromodiphenyl ether	ND	ND	5	--
Nonabromodiphenyl ether	ND	ND	5	--
Decabromodiphenyl ether	ND	ND	5	--
Comment	PASS	PASS	--	--

Specimen Description:

1. Yellow paint (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)
2. Pearl flesh paint (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)
3. Navy paint (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)
4. Orange paint (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)
5. Red paint (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)

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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing
 - The result of Hexavalent chromium (Cr(VI)) is deemed to be "ND" since the result of total chromium content is "ND", so the testing of Hexavalent chromium (Cr(VI)) is not requirement.
 - If the Chromium (Cr) content is greater than the MDL, And confirmation test of Hexavalent Chromium (Cr(VI)) is required.
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.

5. EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Phthalates Content

Method: With reference to IEC 62321-8:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		1	2	3		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	50	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	50	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	50	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		4	5		
Specimen No.	--				
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	50	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	50	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	50	1000

Specimen Description:

1. Yellow paint (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)
2. Pearl flesh paint (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)
3. Navy paint (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)
4. Orange paint (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)
5. Red paint (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)

- mg/kg = milligram per kilogram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Remark:

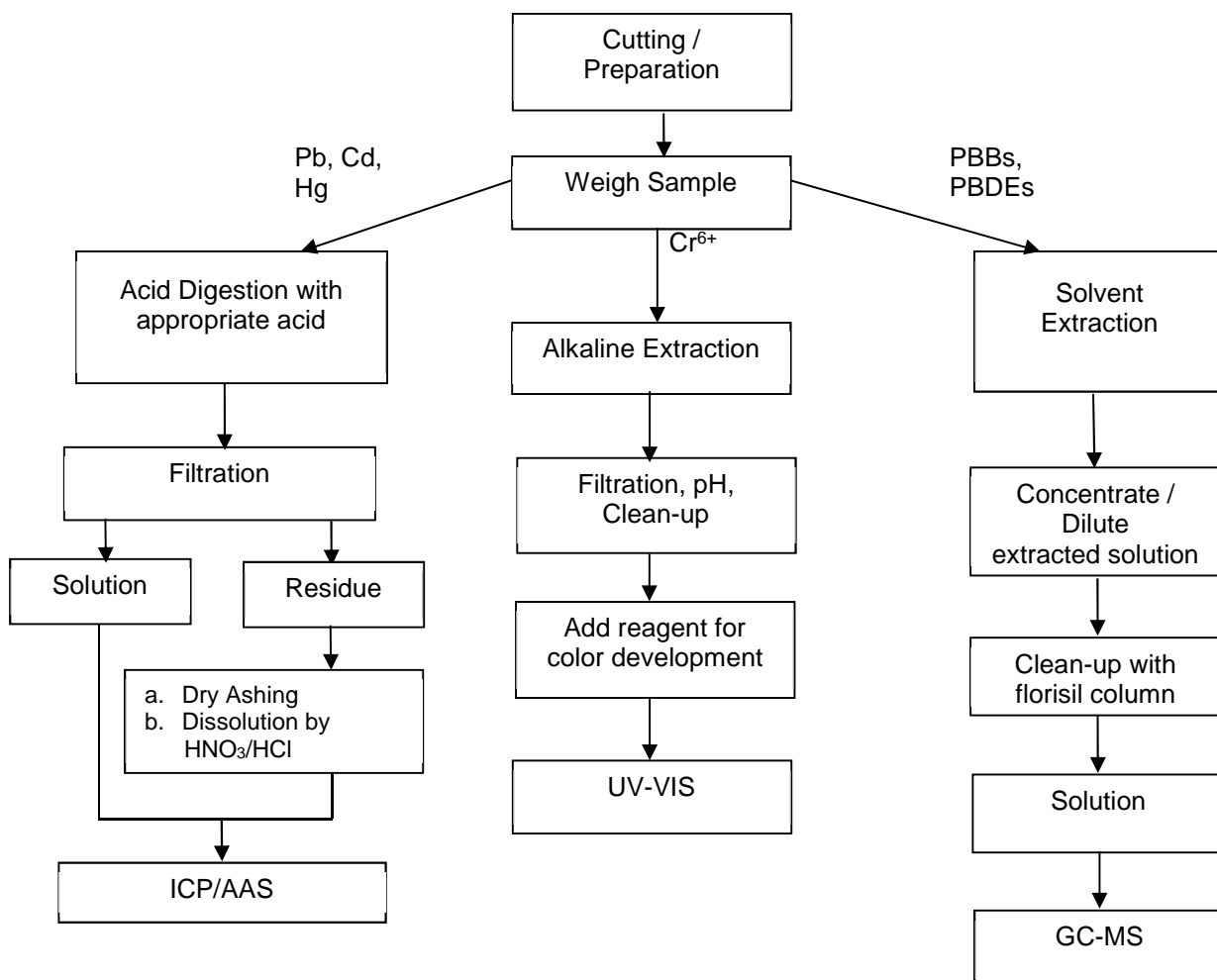
When statement of conformity is made, unless inherent in the requested specification, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3.

“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”.

“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

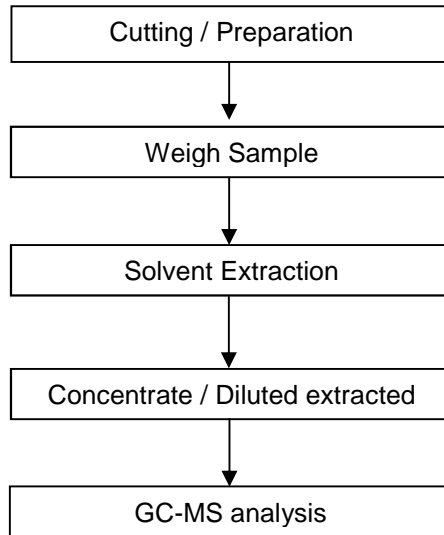
Flowchart:



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Flowchart:



- Note : 1. For Cr(VI), spot test is adopted for metal sample.
 2. The Cd and Pb contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.

Sample Photo:

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

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