

Test Report

No. : CE/2019/B0287

Date : 2019/11/08

Page : 1 of 8

EVERWIDE CHEMICAL CO.

NO. 36, DOUGONG 6TH RD., DOULIU CITY, YUNLIN COUNTY 64069, TAIWAN


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

Sample Submitted By : EVERWIDE CHEMICAL CO.
Sample Description : UV RESIN
Style/Item No. : PLEASE REFER TO PAGE 4
Sample Receiving Date : 2019/11/04
Testing Period : 2019/11/04 to 2019/11/08

=====
Test Requested : As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

Test Method : Please refer to following pages.

Test Result(s) : Please refer to following pages.


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



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Test Report

No. : CE/2019/B0287

Date : 2019/11/08

Page : 2 of 8

EVERWIDE CHEMICAL CO.

NO. 36, DOUGONG 6TH RD., DOULIU CITY, YUNLIN COUNTY 64069, TAIWAN

Test Result(s)

PART NAME No.1 : BLACK PASTE

Test Item(s)	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-OES.	2	n.d.
Hexavalent Chromium Cr(VI) (◆)	mg/kg	With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-OES.	8	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		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		-	n.d.
Monobromodiphenyl ether	mg/kg		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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Test Report

No. : CE/2019/B0287

Date : 2019/11/08

Page : 3 of 8

EVERWIDE CHEMICAL CO.

NO. 36, DOUGONG 6TH RD., DOULIU CITY, YUNLIN COUNTY 64069, TAIWAN

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

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = below MDL
4. " - " = Not Regulated
5. (◆) : The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required. If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.

Test Report

No. : CE/2019/B0287

Date : 2019/11/08

Page : 4 of 8

EVERWIDE CHEMICAL CO.

NO. 36, DOUGONG 6TH RD., DOULIU CITY, YUNLIN COUNTY 64069, TAIWAN

Style/Item No. :

GN435-45、2001~2999-99 SERIES、3001~3999-99 SERIES、9001~9999-99 SERIES、EX001~EX9999-99 SERIES、EXA001~EXZ9999Z SERIES、FA001~FA9999-99 SERIES、FB001~FB999-99 SERIES、FC001~FC99999-99 SERIES、FF001-01~FF999-99 SERIES、FG001~FG99999-99 SERIES、FK001~FK999999-99 SERIES、FL001~FL9999-99 SERIES、FM001~FM99999-99 SERIES、FP001~FP99999-99 SERIES、FR001~FR9999-99 SERIES、FT001~FT99999-99 SERIES、FU001~FU99999-99 SERIES、GA001~GA999-99 SERIES、GC001~GC999-99 SERIES、GF001~GF999-99 SERIES、GM001~GM999-999 SERIES、GN001~GN999-99 SERIES、GP001~GP999-999 SERIES、GS001~GS999-99 SERIES、HD0001AA~HD9999ZZ SERIES、HD001~HD9999-99 SERIES、GB001~GB999-99 SERIES、GD001~GD999-99 SERIES、LG10-1~LG9999-99 SERIES、GN268-12、FP328、H-001~H-9999-99 SERIES、C-0001~C-9999 SERIES、SY3726L、HD00001-01~HD99999-99 SERIES、JX041、GN013、GN495、FP80852、FP572、KU-6001~KU-6999 SEREIES、XZ0001~XZ9999 SERIES、XZ001AA~XZ999ZZ SERIES、UT2000~UT2999 SEREIES、UT2000-1~UT2999-99 SEREIES、UT6000~UT6999 SEREIES、UT6000-1~UT6999-99 SEREIES、UT8000~UT8999 SEREIES、UT8000-1~UT8999-99 SEREIES、UT9000~UT9999 SEREIES、UT9000-1~UT9999-99 SEREIES、GN869-59、FK2561、FP9624、100-9999 SERIES、100-1~9999-99 SERIES、HQ001~HQ9999 SERIES、HQ001-1~HQ9999-99 SERIES、29S-001~29S-99999 SERIES、29S-001-1~29S-99999-99 SERIES、GN001~GN9999 SERIES、GN001-1~GN9999-99 SERIES、CA001~CA9999 SERIES、CA001-1~CA9999-99 SERIES、EX001~EX9999 SERIES、DB0001~DB9999 SERIES、YX001~YX999 SERIES、IR001~IR999 SERIES、HR001~HR999 SERIES、DH001~DH999 SERIES、LH001~LH999 SERIES、JT001~JT999 SERIES、TRA0001-01~TRA9999-99 SERIES、5015、5016、5017、5018、GN5015、GN5016、GN5017、GN5018、GN5019、GN5026、GN5028、GN5029、EFR9605、FR0596、FR9611、FR9612、FR9613、FR9614、FR9615、FR9616、FR9618、FR9619、FR9620、FR9621、FR9622、FR9623、FR9624、FR9625、FW-001~FW999 SERIES、FP80752、GH-0000~GH-9999 SERIES、A001-1A~A999-99Z SERIE、DF001~DF9999 SERIES、DF001-1~DF9999-1 SERIES、HD7331、HD7332、HD7333、HD7334、HD7335、HD7336、HD7337、HD7338、GN435-45、FR361-9、5751、5752、5753、5754、5755、5756、5757、5758、5759

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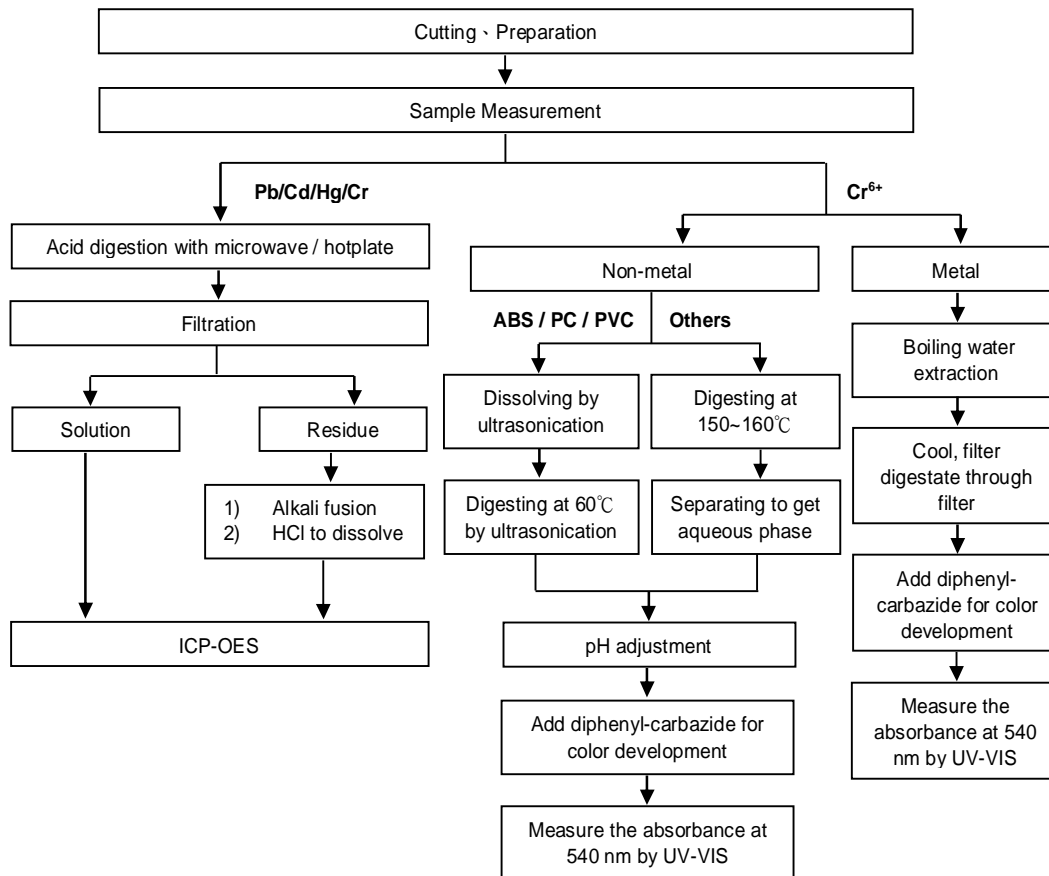
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Analytical flow chart of Heavy Metal

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

- Technician : Rita Chen
- Supervisor: Troy Chang



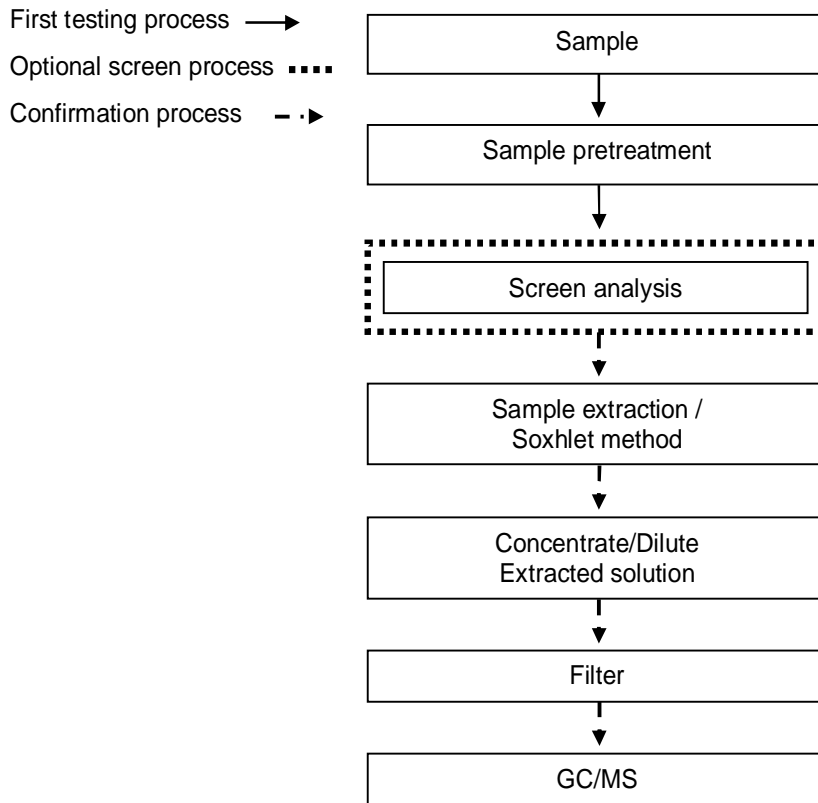
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Analytical flow chart – PBB / PBDE

- Technician : Yaling Tu
- Supervisor: Troy Chang



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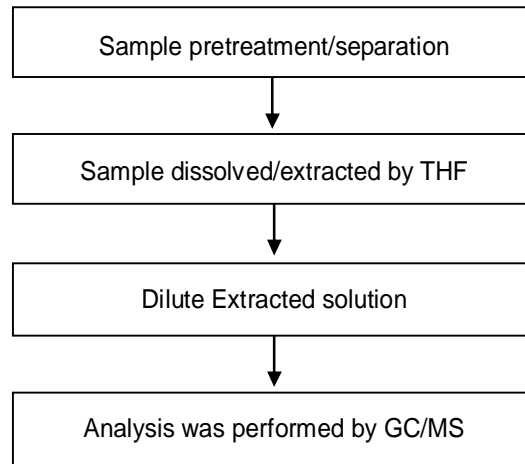
EVERWIDE CHEMICAL CO.

NO. 36, DOUGONG 6TH RD., DOULIU CITY, YUNLIN COUNTY 64069, TAIWAN

Analytical flow chart - Phthalate

- Technician: Yaling Tu
- Supervisor: Troy Chang

【Test method: IEC 62321-8】



Test Report

No. : CE/2019/B0287

Date : 2019/11/08

Page : 8 of 8

EVERWIDE CHEMICAL CO.

NO. 36, DOUGONG 6TH RD., DOULIU CITY, YUNLIN COUNTY 64069, TAIWAN

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

CE/2019/B0287



** End of Report **