

Test Report

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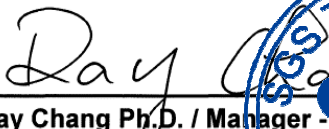
DYNACRAFT INDUSTRIES SDN BHD


255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

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

Sample Submitted By : DYNACRAFT INDUSTRIES SDN BHD
 Sample Description : AG PLATING LEADFRAME USING COPPER BLANK C194
 CRS Reference No. : 2020-02-20-015
 Sample Receiving Date : 2020/02/24
 Testing Period : 2020/02/24 to 2020/03/02

Test Requested : (1) 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).
 (2) Please refer to next pages for the other item(s).
 Test Result(s) : Please refer to next page(s).


 Ray Chang Ph.D. / Manager
 Signed for and on behalf of
 SGS Taiwan Limited
 Chemical Laboratory-Kaohsiung




PIN CODE: 645317B3

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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Test Result(s)

PART NAME NO.1 : GOLDEN/SILVER COLORED METAL SHEET (INCLUDING THE PLATING LAYER)

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	21.3
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)(#2)	µg/cm²	With reference to IEC 62321-7-1:2015 and performed by UV-VIS.	0.10	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 Item (s)	Unit	Method	MDL	Result
				No.1
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	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	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
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.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA 3052: 1996. Analysis was performed by ICP-OES.	2	n.d.
Beryllium (Be)	mg/kg	With reference to US EPA 3052: 1996. Analysis was performed by ICP-OES.	2	n.d.

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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Test Item (s)	Unit	Method	MDL	Result
				No.1
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	With reference to IEC 62321: 2008. Analysis was performed by GC/MS.	5	n.d.
Polychlorinated Biphenyls (PCBs)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by GC/MS.	0.5	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by GC/MS.	5	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by GC/MS.	0.5	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.:85535-84-8)	%	With reference to US EPA 3550C: 2007. Analysis was performed by GC/ECD.	0.01	n.d.
Tributyl Tin (TBT)	mg/kg	With reference to ISO 17353: 2004. Analysis was performed by GC/FPD.	0.03	n.d.
Bis(tributyltin)oxide (TBTO) (CAS No.: 56-35-9)	mg/kg	With reference to ISO 17353: 2004. Analysis was performed by GC/FPD. Calculated from the result of Tributyl Tin (TBT).	0.03 (▲)	n.d.
Triphenyl Tin (TphT)	mg/kg	With reference to ISO 17353: 2004. Analysis was performed by GC/FPD.	0.03	n.d.
Dibutyl Tin (DBT)	mg/kg	With reference to ISO 17353: 2004. Analysis was performed by GC/FPD.	0.03	n.d.
Diocetyl Tin (DOT)	mg/kg	With reference to ISO 17353: 2004. Analysis was performed by GC/FPD.	0.03	n.d.

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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Test Item (s)	Unit	Method	MDL	Result No.1
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	Negative
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI)
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
6. ** = Qualitative analysis (No Unit)
7. Negative = Undetectable / Positive = Detectable
8. (▲) : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	A	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.024

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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

PFOS Reference Information : POPs - (EU) 2019/1021

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

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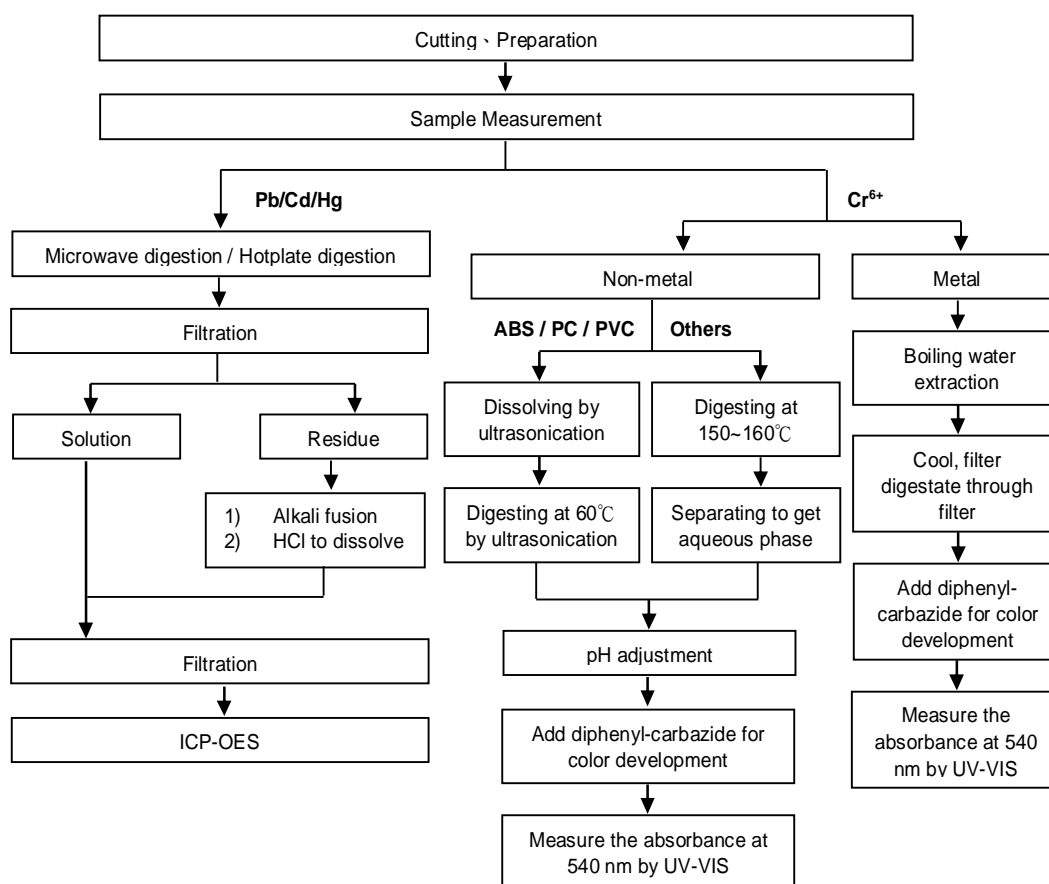
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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

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: Jony Liu
- Supervisor: Ray Chang



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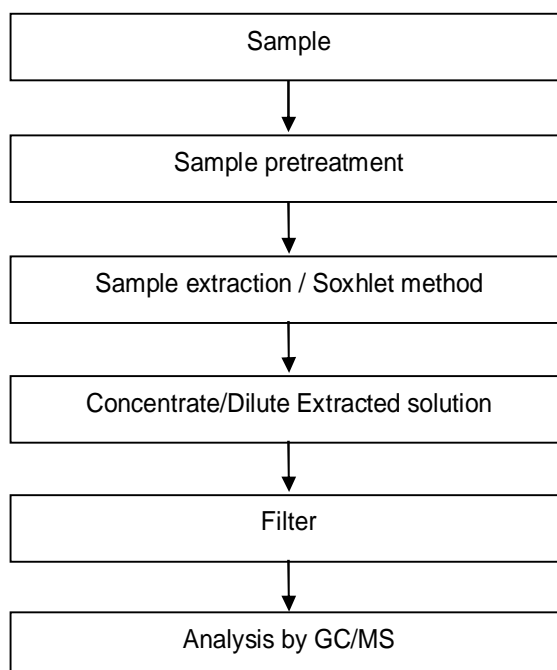
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DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

PBB/PBDE analytical FLOW CHART

- Technician : Dorothy Chen
- Supervisor: Ray Chang



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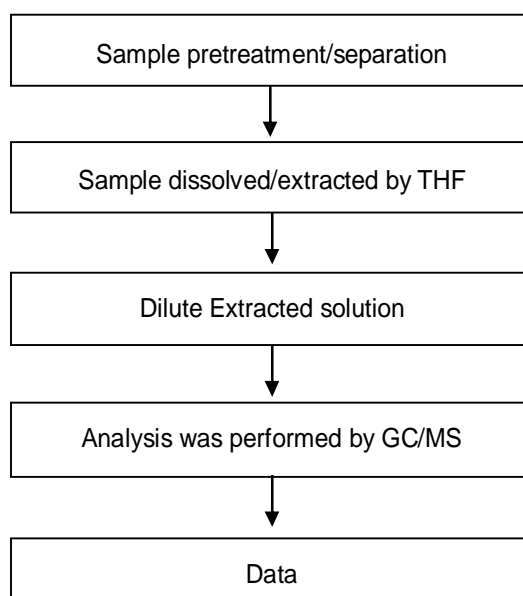
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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Analytical flow chart of phthalate content

- Technician: Dorothy Chen
- Supervisor: Ray Chang

【Test method: IEC 62321-8】



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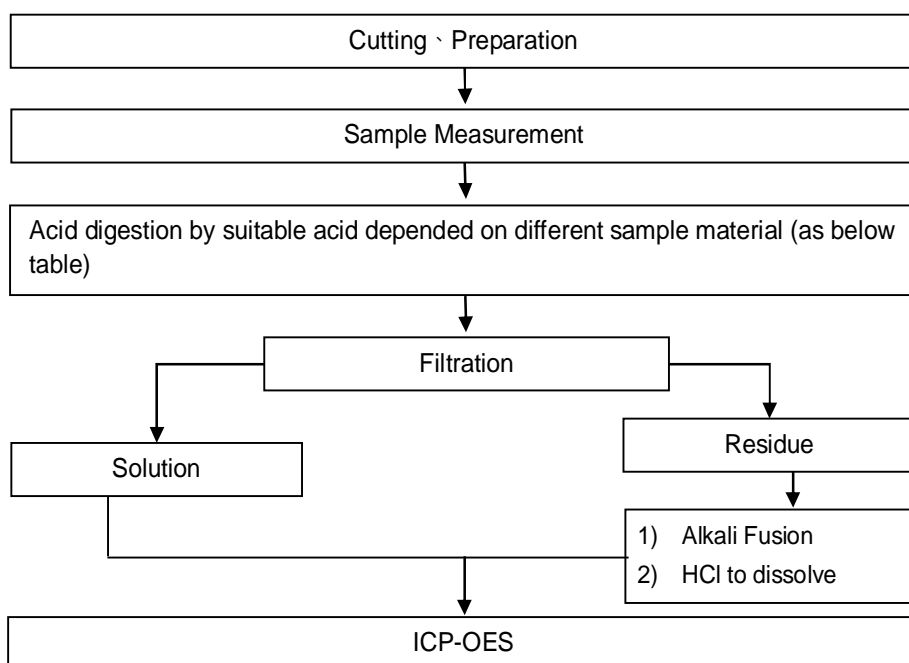
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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Flow Chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.

- Technician: Jony Liu
- Supervisor: Ray Chang



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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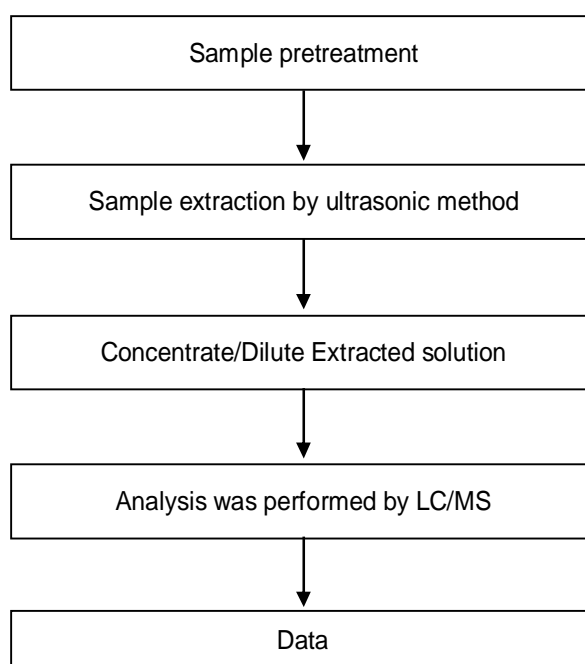
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DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Analytical flow chart of PFOA/PFOS content

- Technician : Ginny Huang
- Supervisor: Ray Chang



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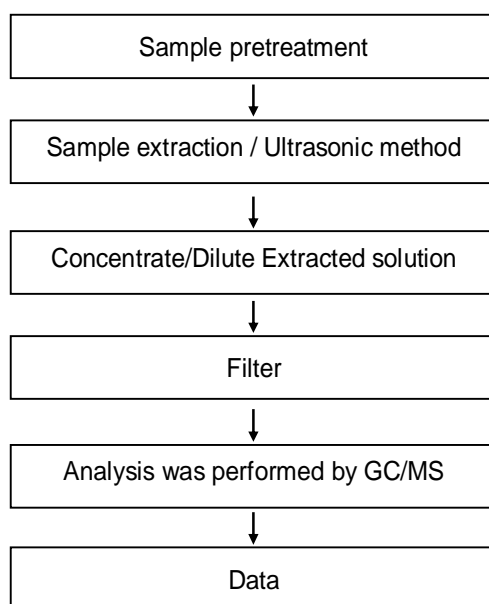
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DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

HBCDD analytical flow chart

- Technician : Dorothy Chen
- Supervisor: Ray Chang



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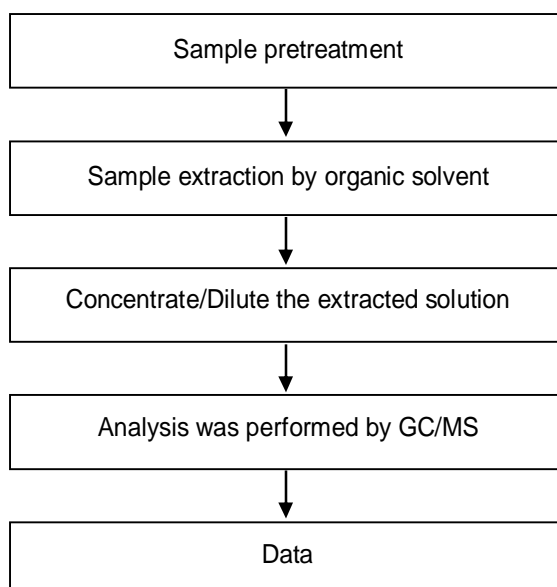
255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Chlorinated Flame retardant analytical flow chart

- Technician: Dorothy Chen
- Supervisor: Ray Chang

【Reference method: US EPA 3550C】

【Test Items: PCBs, PCNs, PCTs 】



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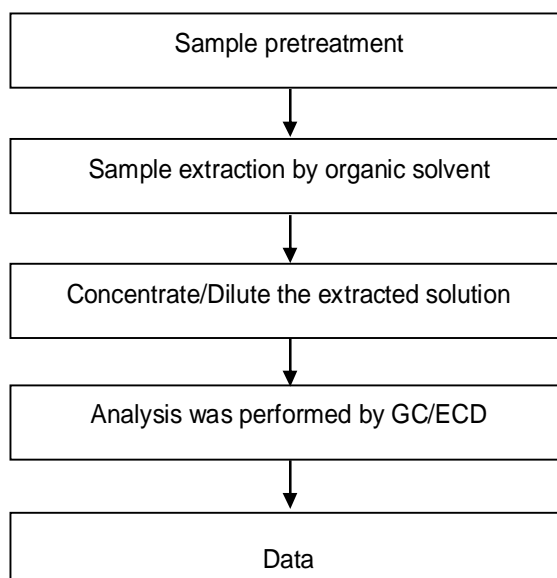
DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Analytical flow chart - Chlorinated Paraffins

- Technician: Dorothy Chen
- Supervisor: Ray Chang

【Reference method: US EPA 3550C】



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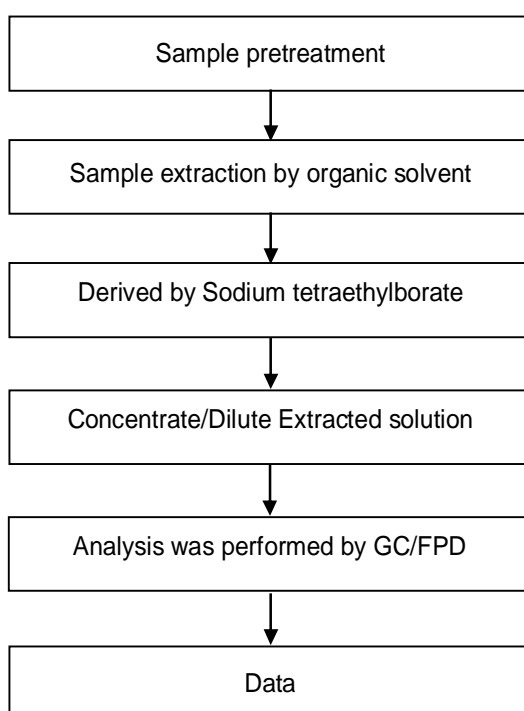
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255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Analytical flow chart of Organic-Tin content

- Technician: Dorothy Chen
- Supervisor: Ray Chang



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Test Report

No. : KA/2020/21709

Date : 2020/03/04

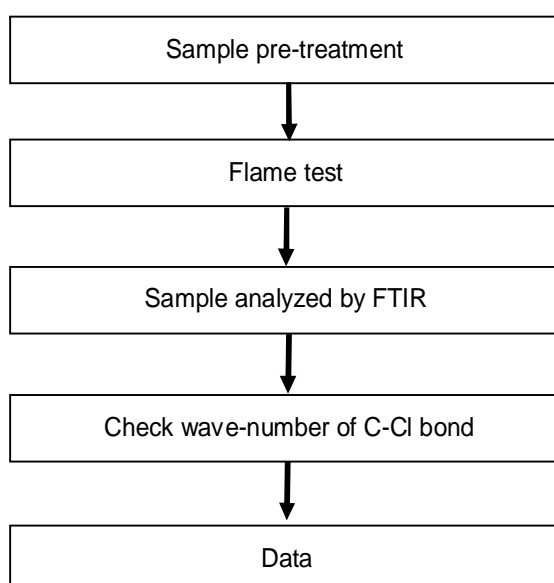
Page: 16 of 18

DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Analysis flow chart for determination of PVC in polymer material

- Technician: Jin Tu
- Supervisor: Roger Lin



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Test Report

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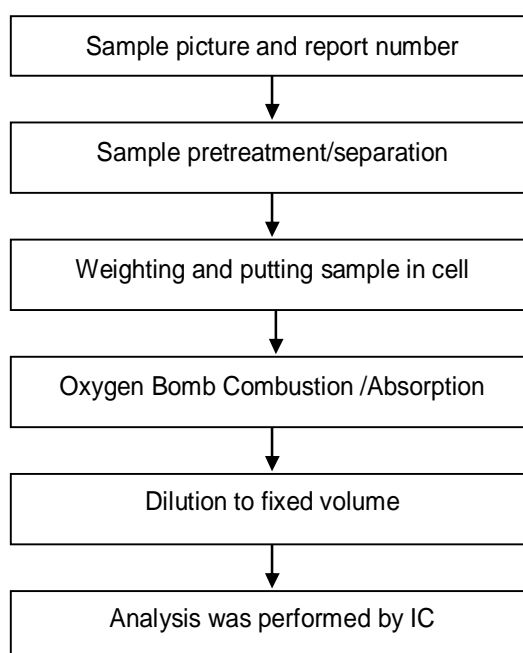
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DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

Analytical flow chart of halogen content

- Technician : Jean Hung
- Supervisor: Ray Chang



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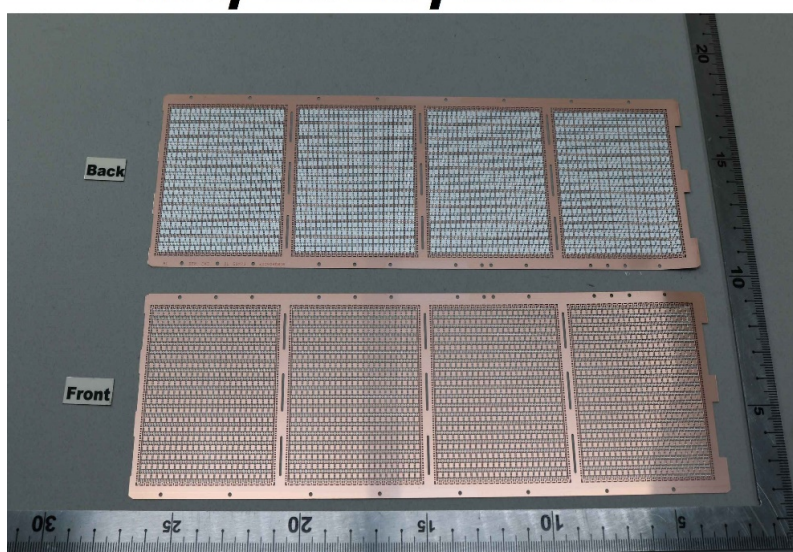
Page: 18 of 18

DYNACRAFT INDUSTRIES SDN BHD

255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

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

KA/2020/21709



** End of Report **

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