

No. CPSA/210358575-CA58940 Job Ref. C&P/2021-02-23-013 REPORTED DATE: 17-March-2021

DYNACRAFT INDUSTRIES SDN. BHD.

NO. 255-A, BLOCK D, PHASE II, BAYAN LEPAS INDUSTRIAL ZONE, 11900 PENANG, MALAYSIA.

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

SAMPLE DESCRIPTION	:	MEP AG PLATING LEADFRAME C7025 (AG PLATING & MEP AG PLATING)		
SAMPLE RECEIVED	:	23-February-2021		
TESTING PERIOD	:	23-February-2021 to 18-March-2021		
TEST REQUESTED	:	Selected test(s) as requested by customer		
TEST METHOD	:	-PLEASE REFER TO NEXT PAGE(S)-		
TEST RESULTS	:	-PLEASE REFER TO NEXT PAGE(S)-		
CONCLUSION	:	Based on the performed tests on submitted sample(s), the result(s) of Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (CrVI), Polybrominated biphenyl, PBB, Polybrominated diphenyl ether, PBDE, Dibutyl phthalate (DBP), Benzyl butyl phthalate (BBP), Di(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) complies/comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.		

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IKM No. M/3452/6047/11/12

Test Report Form No.: SGS/TR/CP/013, Ver: 2.0, Effective Date: 15/03/2021

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TEST RESULTS:

Test Part Description

Sample Description:

-PLEASE REFER TO PAGE 1-

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

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Cadmium (Cd)	ium (Cd) mg/kg With reference to IEC 62321-5:2013.Analy performed by ICP-OES.(Decision rule:refer Ap category1)		N.D.	2	Max 100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013.Analysis performed by ICP-OES.(Decision rule:refer Appendix, category1)	N.D.	2	Max 1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017.Analysis performed by ICP-OES.(Decision rule:refer Appendix, category1)	N.D.	2	Max 1000
Hexavalent Chromium (CrVI)	µg/cm²	With reference to IEC 62321-7-1:2015.Analysis performed by Colorimetric Method using UV-Vis. (Decision rule:Refer Appendix category 2)	N.D.	0.10	-
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	Max 1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-

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TEST RESULTS:

Test Part Description

Sample Description:

-PLEASE REFER TO PAGE 1-

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

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015. Analysis performed by GC-MS.(Decision rule: refer to Appendix, category 1)	N.D.	5	-
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	Max 1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015.Analysis performed by GC-MS(Decision rule:refer Appendix category 1)	N.D.	5	-

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- Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) = Not regulated
 - (e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
 - (f) IEC 62321 series is equivalent to EN 62321 series.
 - https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25
 - (g) a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI.
 - b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

Optional: RoHS Directive 2011/65/EU, priority substances

Test Parameter(s):	Unit	Test Method	Result	MDL
Hexabromocyclododecane (HBCDD)(CAS No.: 3194-55-6,25637-99-4	mg/kg	In-house method, SGS-TM-RSTS-O-012, with reference to IEC 62321-6:2015. Analysis was performed by GCMS	N.D.	5

Note : (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

(b) N.D. = Not Detected

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TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

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

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Dibutyl phthalate (DBP) (CAS No. 84-74-2)	mg/kg	With reference to IEC 62321-8:2017. Analysis performed by GC-MS.(Decision rule:refer Appendix, category 1)	N.D.	50	Max 1000
Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)	mg/kg	With reference to IEC 62321-8:2017.Analysis performed by GC-MS.(Decision rule:refer Appendix, category 1)	N.D.	50	Max 1000
Di(2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7)	mg/kg	With reference to IEC 62321-8:2017.Analysis performed by GC-MS.(Decision rule:refer Appendix, category 1)	N.D.	50	Max 1000
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	mg/kg	With reference to IEC 62321-8:2017.Analysis performed by GC-MS.(Decision rule:refer Appendix, category 1)	N.D.	50	Max 1000

Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(f) IEC 62321 series is equivalent to EN 62321 series.

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(g)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.

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REPORTED DATE: 17-March-2021

TEST RESULTS BY CHEMICAL METHOD:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

Test Parameter(s):	Unit	Test Method	Result	MDL
Beryllium (Be)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES.	N.D.	2
Antimony (Sb)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES.	N.D.	2
Halogen	-	-	-	-
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Fluorine content.	N.D.	50
Halogen-Chlorine (Cl)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Chlorine content.	N.D.	50
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Bromine content.	N.D.	50
Halogen-Iodine (I)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for lodine content.	N.D.	50

Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) Negative = Undetectable / Positive = Detectable

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TEST RESULTS:

Test Method:

Test Part Description

Sample Description:

-PLEASE REFER TO PAGE 1-

With reference to CEN/TS 15968:2010. Analysis was performed by LC-MS

Test Parameter(s):	Result (%)	Max. Limit (µg/m²) (Textile/Coated material)	Max.Limit(%) (Plastic)	Max. Limit(%) (Substances/ in mixtures)
Perfluorooctanesulfonic acid (PFOS)	N.D.	1	0.1	0.001
Perfluorooctanoic acid (PFOA) (CAS No. 335-67-1)	N.D.	1	1	/
Conclusion	PASS			

Note: (a) N.D. = Not Detected

- (b) Detection limit = $1 \mu g/m^2$ for Textile / Coated Material
 - = 0.001% for Plastic, substances or mixtures

(c) Recommended requirement with reference to Commission Regulation (EU) 2019/1021 on Persistent Organic Pollutant.

(d) PFOS refers to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid,

Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Appendix

Category	Decision Rule Statement
1	Based on binary statement with guard band (equal to the expanded measurement uncertainty with a 95% coverage probability, w=U95) in ILAC-G8:09/2019 Clause 4.2.2.
2	According to IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1- Comparison to standard and interpretation of result.
3	Based on binary statement for simple acceptance rule (w=0) in ILAC-G8:09/2009 Clause 4.2.1.
4	Based on non-binary statement with guard band (equal to the expanded measurement uncertainty with a 95% coverage probability, w=U95) in ILAC-G8:09/2019 Clause 4.2.3.
5	According to IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 Interpretation of result.
Remark	When decision rule is not feasible to be used and the uncertainty of the result is available to be provided, the uncertainty range of result will be shown in the report. Otherwise, only result will be shown in the report.

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SG 10871-TAY SIAM PINE TECHNICAL MANAGER 4

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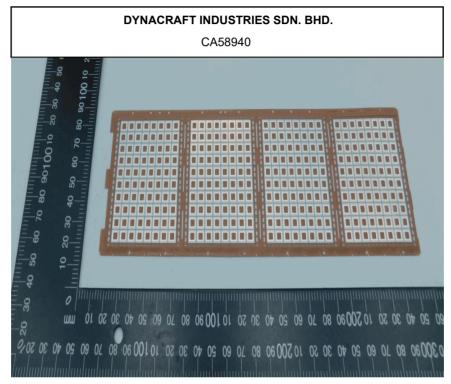


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Test Part Description :

Sample Description:

-PLEASE REFER TO PAGE 1-



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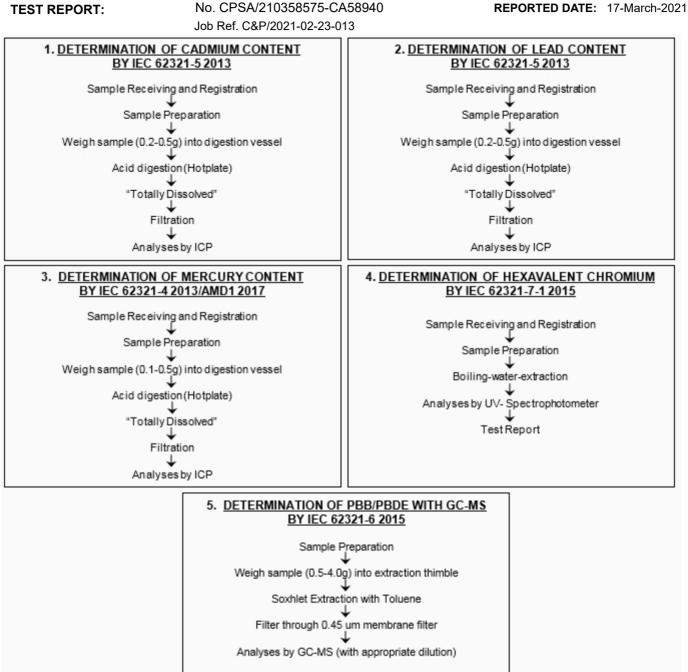
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IKM No. M/3452/6047/11/12

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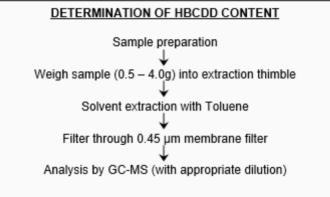
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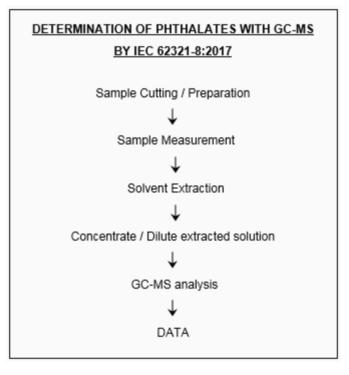
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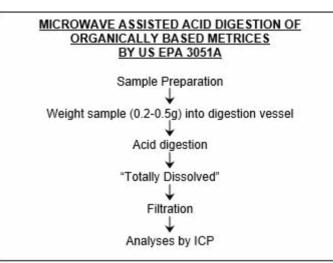
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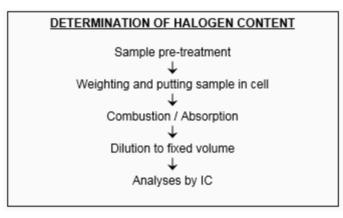
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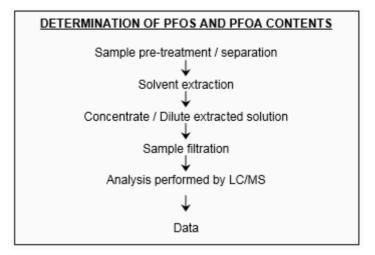
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*** End of test report ***

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