



Test Report

No. LPCI/24554/07

Date : 2008/01/15

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CTS Ref. CTS/07/6043/Dynacraft

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

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Spot Ag lead frame using raw copper blank C7025
Sample Receiving Date : 2007/12/19
Testing Period : 2007/12/19 to 2007/12/28
Date Reported : 2008/01/15

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to IEC 62321 for Cadmium Content. Analysis was performed by ICP
(2) With reference to IEC 62321 for Lead Content. Analysis was performed by ICP
(3) With reference to IEC 62321 for Mercury Content. Analysis was performed by ICP
(4) With reference to ISO 3613 for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrophotometry.
(5) With reference to IEC 62321, Ed1 (111 54 CDV). Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN
B.Sc.(HONS) AMIC
LAB MANAGER

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI)	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description :

As per page 3

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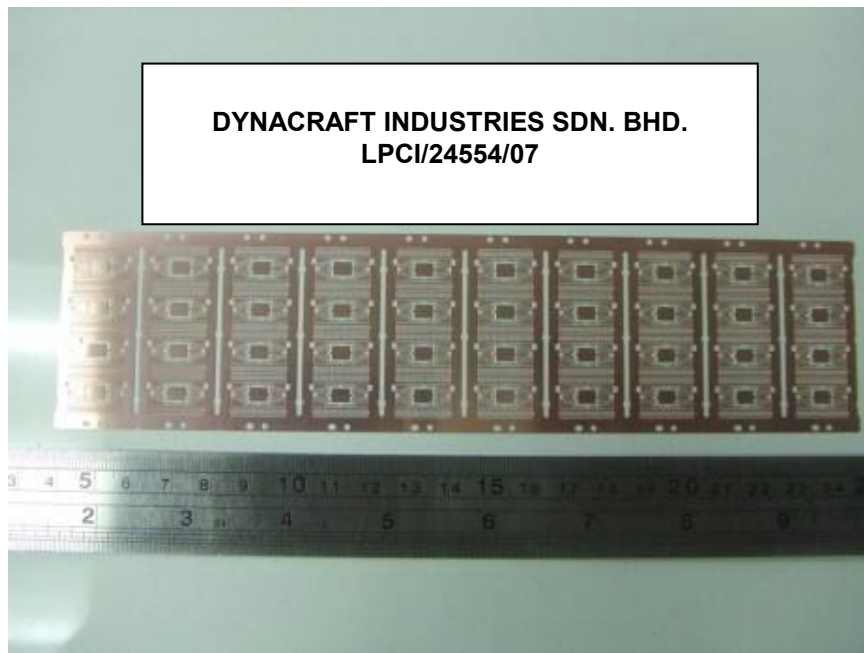
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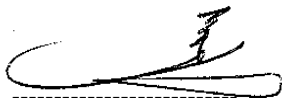
Test Part Description :

Sample Description : Spot Ag lead frame using raw copper blank C7025



Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MDL = Method Detection Limit

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**1. DETERMINATION OF HEXAVALENT CHROMIUM
 BY ISO 3613**

Sample Receiving and Registration
 ↓
 Sample Preparation
 ↓
 Add colour-developing reagent
 ↓
 Let stand for 5-10 min
 ↓
 Analyses by UV- Spectrophotometer (540 nm)

**2. DETERMINATION OF LEAD CONTENT BY
 IEC 62321**

Sample Receiving and Registration
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (1.0g) into digestion vessel
 ↓
 Wet digestion / Microwave digestion
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

**3. DETERMINATION OF MERCURY CONTENT BY
 IEC 62321**

Sample Receiving and Registration
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (0.5 - 1.0g) into digestion vessel
 ↓
 Acid digestion (Microwave)
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

**4. DETERMINATION OF CADMIUM CONTENT BY
 IEC 62321**


Sample Receiving and Registration
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (1.0g)
 ↓
 Acid digestion
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

**5. DETERMINATION OF PBB/PBDE WITH GC-MS
 BY IEC 62321 (111 54 CDV)**

Cut sample in small pieces
 ↓
 Weight sample (2g) into extraction thimble
 ↓
 Soxhlet Extraction with Toluene
 ↓
 Filter through 0.45 um membrane filter
 ↓
 Analyses by GC-MS (with appropriate dilution)

**** End of Report ****

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