

TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

Our Ref : CE-8500132805/CHS/1

Date : 03/12/2020

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Tested For : Greenlam Asia Pacific Pte Ltd
11 Sungei Kadut Crescent
Singapore 728683
Attn : Banita Mishra

Date Sample Received : 11/11/2020

Date Commenced : 12/11/2020

Date Completed : 02/12/2020

Sample Description

Sample was received on 11/11/2020 with reference:

High Pressure Laminates

Test Requested

To determine the content of the following heavy metals in the sample submitted in compliance to SGBP requirement under Clause A5:

Metals:

1. Cadmium (Cd)
2. Lead (Pb)
3. Mercury (Hg)
4. Hexavalent Chromium (Cr⁶⁺)

AUTHORIZED BY:



CHIN HUI SENG
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SETSCO SERVICES PTE LTD

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LA-1993-0051-C LA-1998-0144-D
LA-1993-0087-G LA-2000-0181-F
LA-1994-0068-A LA-2012-0519-E
LA-1987-0001-B LA-1987-0001-B-1

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Test Results :

Item No.	Element	Result (ppm / mg/kg)	SGBP Requirement (ppm / mg/kg)
1	Cadmium (Cd), ppm wt	Not Detected	100
2	Lead (Pb), ppm wt	Not Detected	1000
3	Mercury (Hg), ppm wt	Not Detected	1000
4	Hexavalent Chromium (Cr ⁶⁺), ppm wt	Not Detected	1000

Notes : 1) ppm wt : mg/kg

- 2) Detection Limit : a) Cadmium : 2.0 ppm
b) Lead : 10.0 ppm
c) Mercury : 2.0 ppm
d) Hexavalent Chromium : 2.0 ppm

Test Method :

Hexavalent Chromium : IEC 62321 : 2008
Mercury : IEC 62321-4 Ed 1.0 : 2013
Cadmium, Lead : IEC 62321-5 Ed 1.0 : 2013

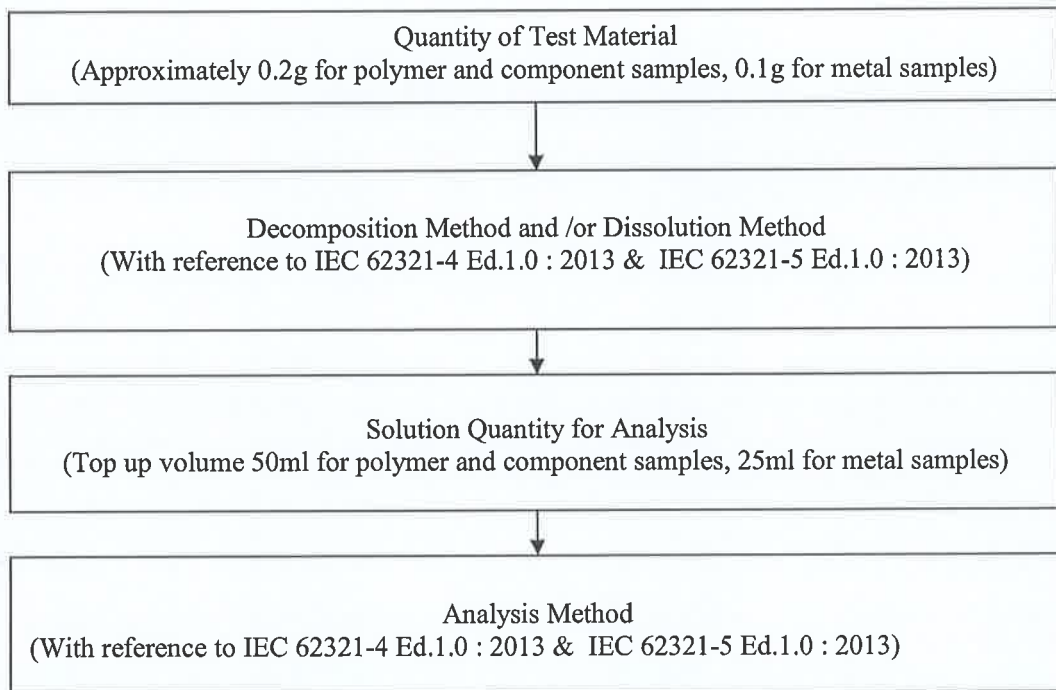


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RoHS Substances Analysis Flowchart - Acid Digestion

Elements : Cadmium (Cd), Lead (Pb), Mercury (Hg)

Pretreatment:



Instrument Used:

1. ICP-OES: Perkin Elmer ICP Optima 5300DV
2. Microwave: Milestone Ethos Touch Control

Standard Used:

Merck: Cadmium, Chromium, Lead and Mercury standard solution.

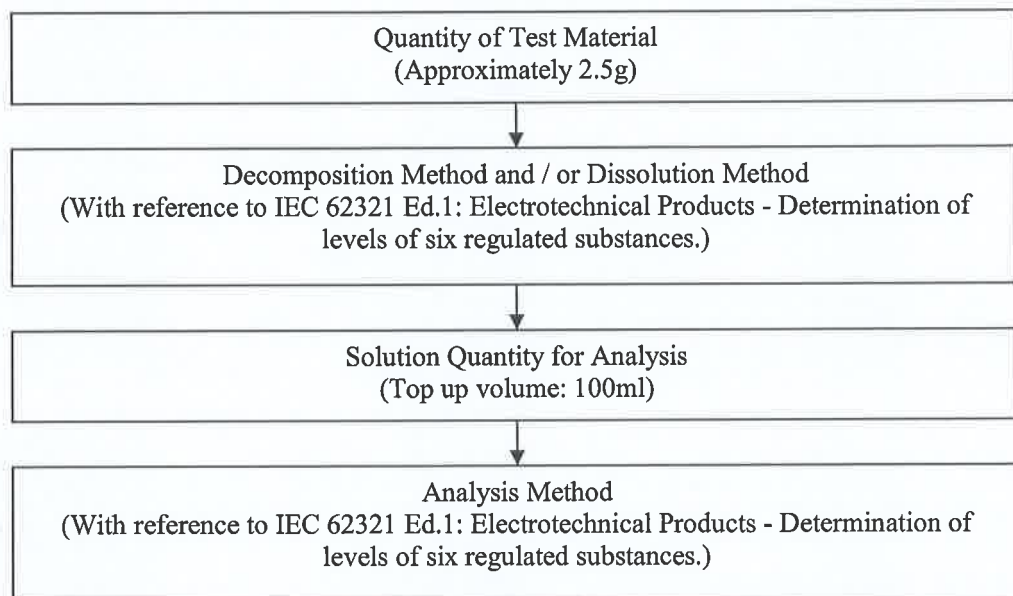


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RoHS Substances Analysis Flowchart - Alkaline Digestion

Element : Hexavalent Chromium (Cr^{6+})

Pretreatment:



Instrument Used:

UV/Vis Spectrometer: Shimadzu UV-Vis Spectrometer, UV-1601/A1075.

Standard Used:

HACH-Chromium Reference Standard Solution.

