

Test Report No. : CE/2014/C0813A Date : 2014/12/15 Page: 1 of 7

TENNVAC INC.

9F-2, NO 31-1, LANE 169, KANG-NING STREET. HSI-CHIH, NEW TAIPEI CITY, TAIWAN

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

Sample Submitted By : TENNVAC INC.

Sample Description : MAX-SHIELD(NI-GR FILLER)

Style/Item No. : X53##

Manufacturer/Vendor : TAIWAN(R.O.C)

Other Info. : ACCORDING TO DIFFERENT PROCESSING TYPE, X COULD INDICATE

F:FIP(FORM-IN-PLACE) , E:EXTRUSION , M: MOLDING , S: SHEET

COULD INDICATE PART NUMBER

Sample Receiving Date : 2014/12/04

Testing Period : 2014/12/04 TO 2014/12/11

Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to

determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted

sample.

(2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine

contents in the submitted sample.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).



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No. : CE/2014/C0813A Date : 2014/12/15

Page: 2 of 7

TENNVAC INC.

9F-2, NO 31-1, LANE 169, KANG-NING STREET. HSI-CHIH, NEW TAIPEI CITY, 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-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs		With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs	IIIg/kg		-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

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No.: CE/2014/C0813A Date: 2014/12/15

Page: 3 of 7

TENNVAC INC.

9F-2, NO 31-1, LANE 169, KANG-NING STREET. HSI-CHIH, NEW TAIPEI CITY, TAIWAN

Test Item(s)	Unit	Method	MDL	Result No.1
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)		With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 22537-15-1)			50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
Halogen-lodine (I) (CAS No.: 14362-44-8)			50	n.d.

Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated



No. : CE/2014/C0813A Date : 2014/12/15

Page: 4 of 7

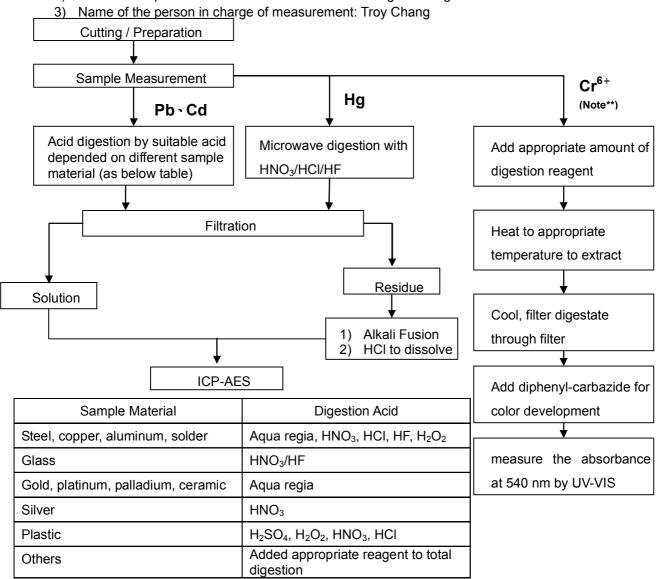
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(Cr⁶⁺ test method excluded)

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

2) Name of the person who made measurement: Climbgreat Yang



Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.

(2) For metallic material, add pure water and heat to boiling.



No.: CE/2014/C0813A Date: 2014/12/15

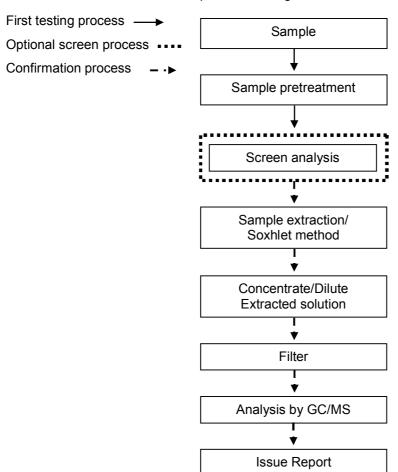
Page: 5 of 7

TENNVAC INC.

9F-2, NO 31-1, LANE 169, KANG-NING STREET. HSI-CHIH, NEW TAIPEI CITY, TAIWAN

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





No.: CE/2014/C0813A Date: 2014/12/15

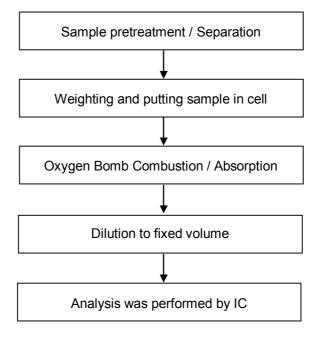
Page: 6 of 7

TENNVAC INC.

9F-2, NO 31-1, LANE 169, KANG-NING STREET. HSI-CHIH, NEW TAIPEI CITY, TAIWAN

Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang





No.: CE/2014/C0813A

Date: 2014/12/15

Page: 7 of 7

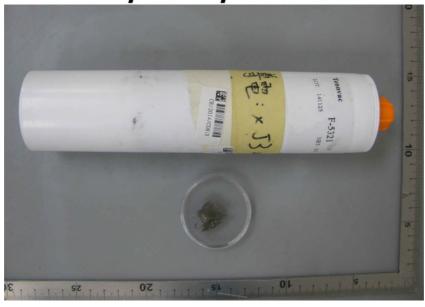
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2014/C0813



** End of Report **