



中国认可
国际互认
检测
TESTING
CNAS L4783

Test Report

Report No.: NAP2504094603E

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Applicant: Dongguan Yingcai New Material Technology Co., Ltd.

Address: Room 402, No.241, Shida Road, Liaobu Section, Liaobu Town, Dongguan City

The following test sample information is provided and confirmed by the applicant:

Sample Name: Photovoltaic Panel Cleaner (Neutral)

Date of sample(s) received: Apr.27,2024

Date of Test Period: Apr.27,2024 ~ Apr.28,2024

Date of Report: Apr.30,2024

TEST REQUIREMENT

1. As specified by client, to determine the EU RoHS Directive 2011/65/EU Annex II and amending Directive (EU) 2015/863 substance content in the submitted sample.

CONCLUSION

PASS

NAP Testing Technology Service (Zhongshan) Co., LTD

Lian Yi

Lian Yi

Authorized Signatory



Unless otherwise stated, this test report is only responsible for the sample(s). This test report cannot be reproduced in part without prior written permission of the testing Lab. Any inquiry about this report, please raise from the date of receipt of the report within 30 days, overdue will not be accepted.

NAP Testing Technology Service (Zhongshan) Co., LTD

TEL: 0760-86519632 E-mail: service@nap-testing.com Web: www.nap-testing.com

Add: 4th floor Zone A and 5th floor, Site no. 81, Lixi Avenue, Banfu Borough, Zhongshan City, Guangdong Province, China



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Test Result(s):

1. EU RoHS Directive 2011/65/EU Annex II and amending Directive (EU) 2015/863 substance content

1.1. Heavy metal content

Test Method: Refer to IEC 62321-5:2013, IEC 62321-4:2017, IEC 62321-7-2:2017, analyzed by ICP-OES/ UV-Vis.

Test Item(s)	MDL (mg/kg)	Test result (mg/kg)	Limit (mg/kg)
Total Lead(Pb)	5	N.D.	1000
Total Cadmium(Cd)	5	N.D.	100
Total Mercury (Hg)	5	N.D.	1000
Hexavalent Chromium (Cr6+)	5	N.D.	1000

Remark(s):

1. N.D.=Not Detected(<MDL); MDL= Method Detection Limits; 1 mg/kg = 0.0001%.
2. The results shown are the total weight of the sample.
3. If total chromium result do not exceed the limit of hexavalent chromium, hexavalent chromium result reference the total chromium result.

1.2. Total Phthalates Content

Test Method: Refer to IEC 62321-8:2017, analyzed by GC-MS.

Test Item(s)	CAS No.	MDL (%)	Test result (%)	Limit (%)
Dibutyl phthalate (DBP)	84-74-2	0.005	N.D.	0.1
Di(2-Ethylhexyl) phthalate (DEHP)	117-81-7	0.005	N.D.	0.1
Butylbenzyl phthalate(BBP)	85-68-7	0.005	N.D.	0.1
Di-(iso-butyl) phthalate (DIBP)	84-69-5	0.005	N.D.	0.1

Remark(s):

1. N.D.=Not Detected(<MDL); MDL= Method Detection Limits; 1 mg/kg = 0.0001%.
2. The results shown are the total weight of the sample.



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1.3. Polybrominated biphenyls and polybrominated diphenyl ethers (PBB, PBDE) Content

Test Method: Refer to IEC 62321-6: 2015, analyzed by GC-MS.

Test Item(s)	MDL (mg/kg)	Test result (mg/kg)	Limit (mg/kg)
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	10	N.D.	–
Nonabromobiphenyl	10	N.D.	–
Decabromodiphenyl	10	N.D.	–
Sum of PBBs	–	Not Detected	1000
Monobromobiphenyl ether	5	N.D.	–
Dibromobiphenyl ether	5	N.D.	–
Tribromobiphenyl ether	5	N.D.	–
Tetrabromobiphenyl ether	5	N.D.	–
Pentabromobiphenyl ether	5	N.D.	–
Hexabromobiphenyl ether	5	N.D.	–
Heptabromobiphenyl ether	5	N.D.	–
Octabromobiphenyl ether	10	N.D.	–
Nonabromobiphenyl ether	10	N.D.	–
Decabromodiphenyl ether	10	N.D.	–
Sum of PBDEs	–	Not Detected	1000

Remark(s):

1. N.D.=Not Detected(<MDL); MDL= Method Detection Limits; “–”= Not Applicable; 1 mg/kg = 0.0001%.
2. The results shown are the total weight of the sample.



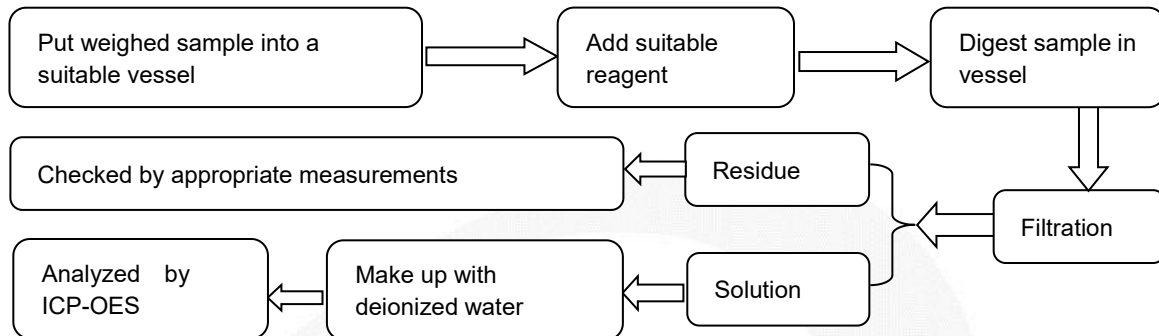
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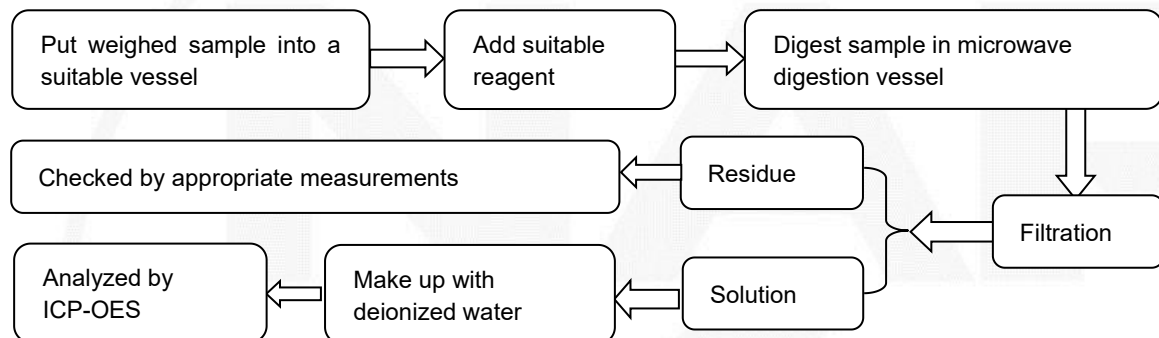
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TEST PROCESS OF EU ROHS:

1). Test for Lead (Pb), Cadmium (Cd) contents(IEC 62321-5 Ed1.0:2013):

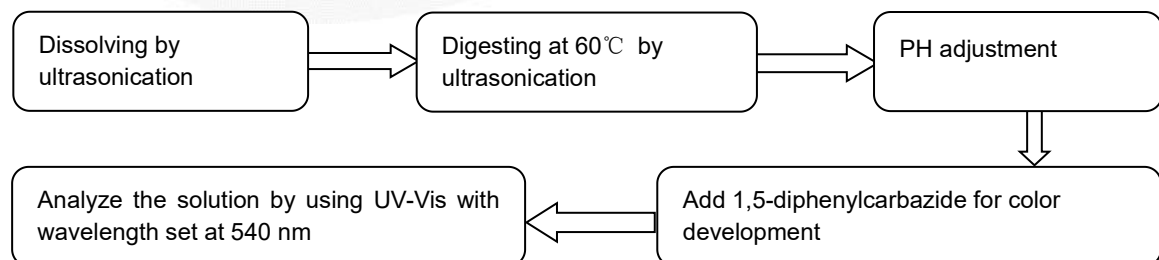


2). Test for Mercury (Hg) contents (IEC 62321-4 Ed1.1:2017):



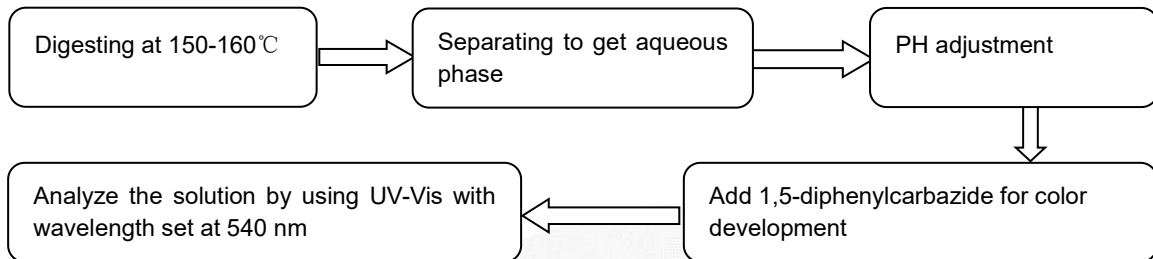
3). Test for Nonmetallic Materials Chromium(Cr(VI)) contents (IEC 62321-7-2 Ed1.0:2017):

3.1) ABS/PC/PVC

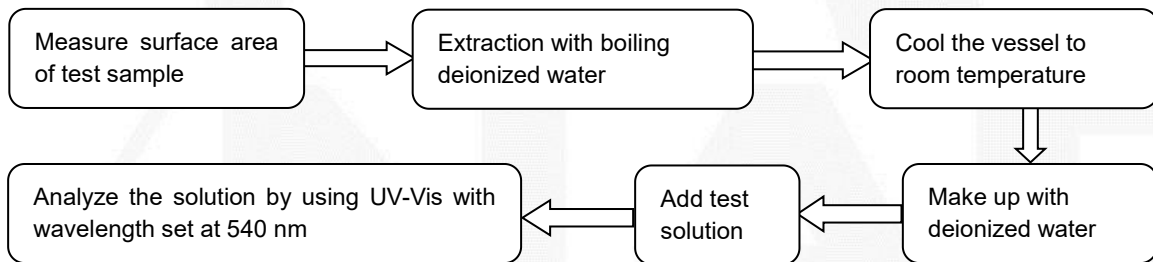


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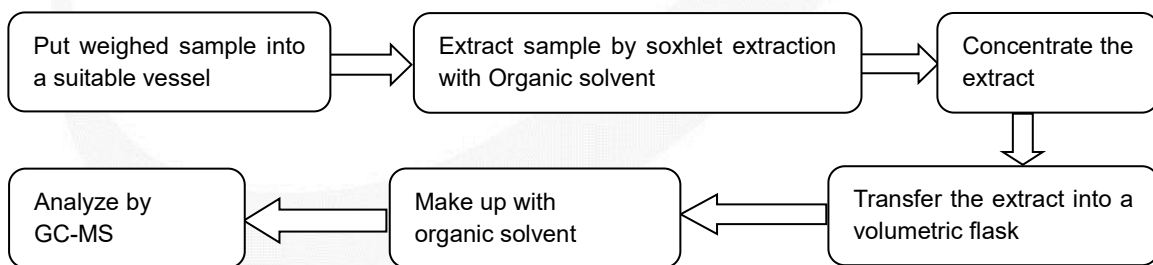
3.2) others



4). Test for metal Chromium(Cr(VI)) contents (IEC 62321-7-1 Ed1.0:2015):



5). Test for PBBs & PBDEs contents (IEC 62321-6 Ed1.0:2015):



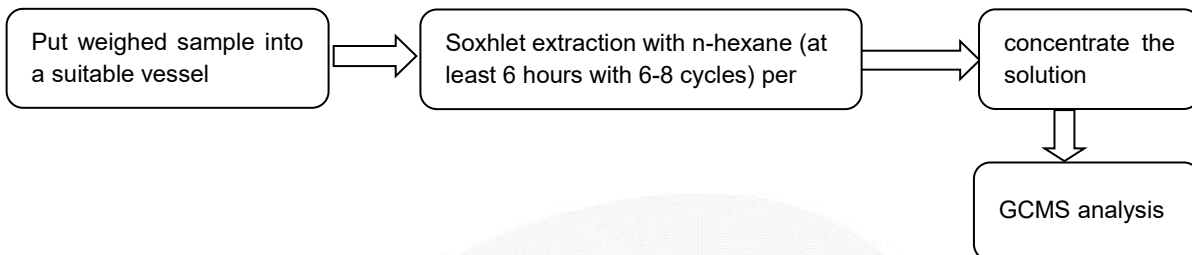
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6). Test for Phthalate content (DEHP,BBP,DBP,DIBP) (IEC 62321-8 Ed1.0:2017):

6.1) Test for general polymer



6.2) Test for THF soluble polymer

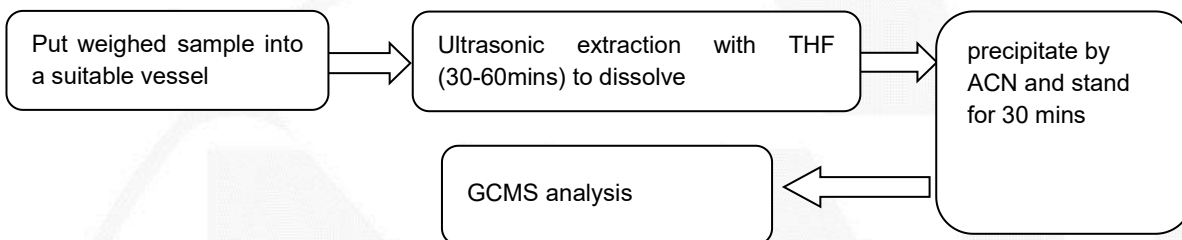


Photo of sample:



***** End of Report *****

