



中国认可
国际互认
检测
TESTING
CNAS L4783

Test Report

Report No.: NAP2603029702E

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Applicant: Life Nano Plastic-Product (Zhangzhou) Co.,Ltd

Address: No.11, Zong 2 Road, Chaoyang Industrial District, Long Wen District, Zhangzhou, Fujian,China.361007

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

Sample Name: Melamine cleaning sponge + cleaning kit

Date of sample(s) received: Mar.11,2026

Date of Test Period: Mar.11,2026 ~ Mar.17,2026

Date of Report: Mar.18,2026

TEST REQUESTED

- 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



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NAP Testing Technology Service (Zhongshan) Co., LTD

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

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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 SCREENING BY X-RAY FLUORESCENCE SPECTROSCOPY AND CONFIRMED BY WET CHEMICAL METHOD OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINATED FLAME RETARDANTS (PBB & PBDE)

TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
001	001	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
002	002	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
003	003	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

Remark(s):

- RL = Reporting Limits
- N.D = Not Detected (<RL)
- Detected = below the lower screening limit of table (a) and pass
- Mg/kg = parts per million = ppm
- N/T = Not tested
- N.A.= Not applicable



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1.2 Total Phthalates Content

Test Method: IEC 62321-8: 2017

<u>Analyte</u>	<u>CAS No.</u>	<u>Requirement (Max.), %</u>	<u>Reporting Limit, %</u>	<u>Sample, %</u>
				<u>001+002+003</u>
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
<u>Rating</u>				PASS

Remark(s):

-“<” means less than

-Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD)

-The test results only apply to the items tested.



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TEST METHODS:

- (1) Sample prepared with reference to IEC 62321-2 Ed1.0:2021 Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjunction and mechanical sample preparation;
- (2) Sample Screening testing with reference to IEC 62321-3-1 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, Cadmium, total chromium and total bromine using X-ray fluorescence spectrometry;
- (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.
- (b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES(for Cd, Pb, Hg), UV-Vis(for Cr⁶⁺) and GC/MS(for PBBs, PBDEs) is recommended to be performed.

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1 Ed1.0:2013

ELEMENT	POLYMER	METALS	COMPOSITE MATERIAL
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

Remark(s):

BL = Below Limit, OL = Over Limit, LOD = Limit of Detection, -- = Not Regulated

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.





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TEST METHODS:

(3) Wet Chemical Test Method

TESTING ITEM	CHEMICAL TESTING METHOD	RL	LIMIT
Cd	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	5.0mg/kg	100mg/kg
Pb	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	5.0mg/kg	1000mg/kg
Hg	With reference to IEC 62321-4 Ed1.1:2017, by acid digestion and determined by ICP-OES	5.0mg/kg	1000mg/kg
Cr ⁶⁺ (for non-metal)	With reference to IEC 62321-7-2 Ed1.0:2017, by the colorimetric method	5.0mg/kg	1000mg/kg
Cr ⁶⁺ (for metal)	With reference to IEC 62321-7-1 Ed1.0:2015 by the water-boiling method	/	/
PBBs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
PBDEs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
DEHP,BBP,DBP, DIBP	With reference to IEC 62321-8 Ed1.0:2017 clause 8.2.1.4 by gas chromatography-mass spectrometry	50mg/kg	1000mg/kg

Remark(s): According to IEC 62321-7-1 Ed1.0:2015, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.



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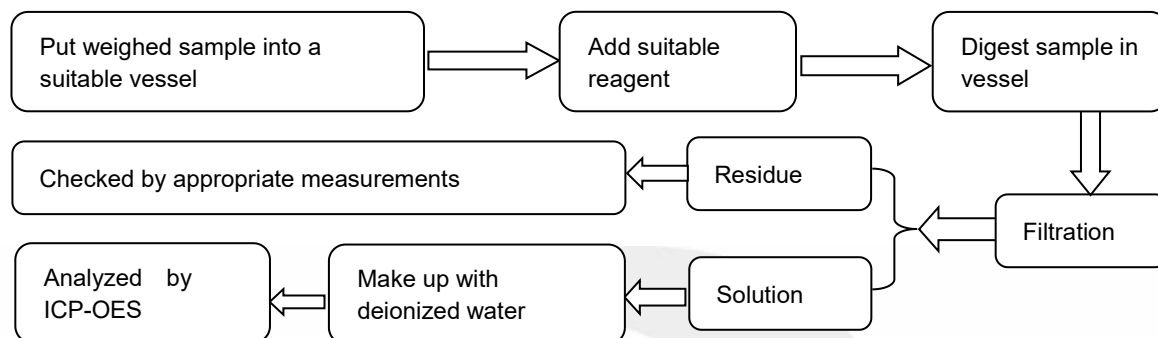
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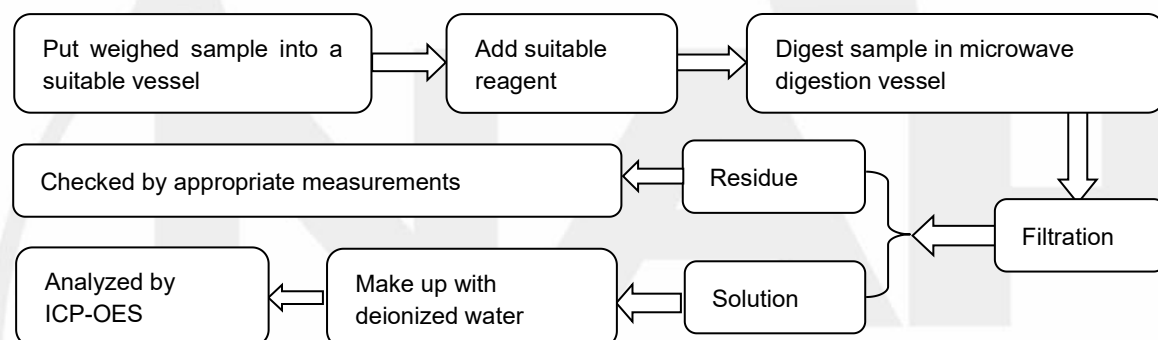
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TEST PROCESS

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

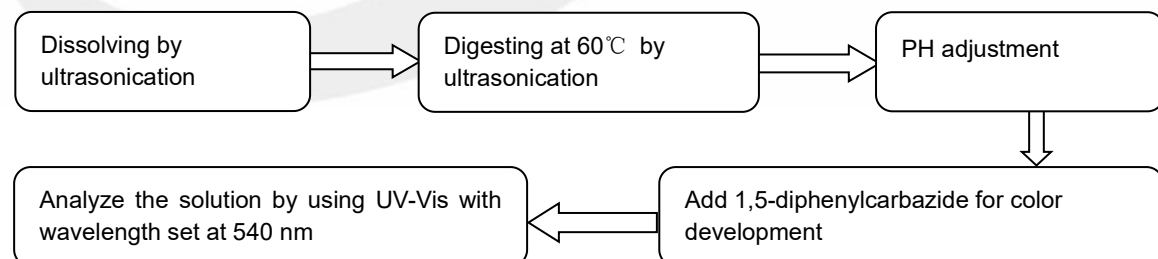


2. Test for Mercury (Hg) contents (IEC 62321-4 Ed1.1:2017):



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

3.1 ABS/PC/PVC

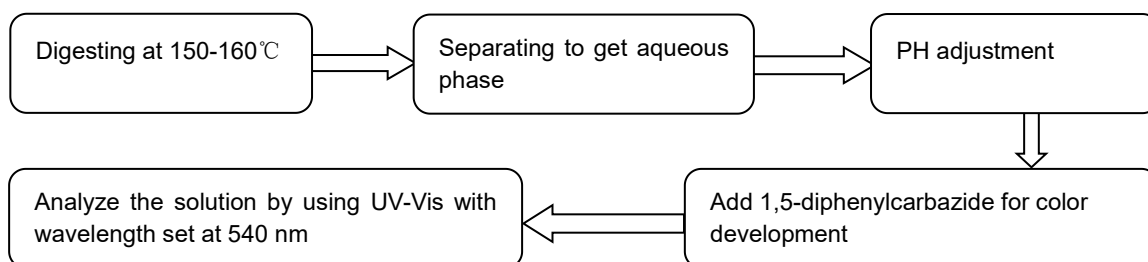


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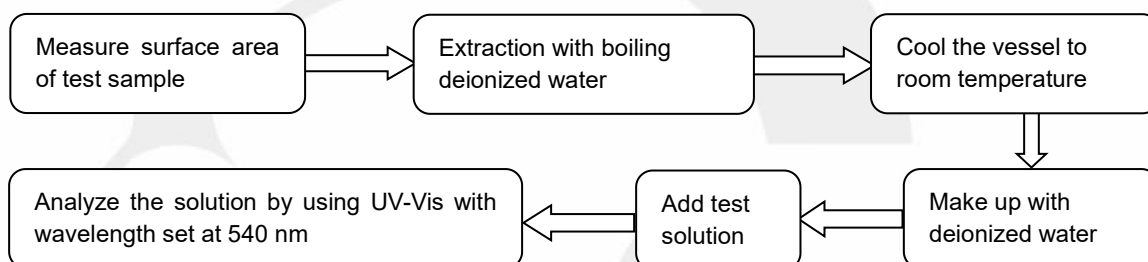
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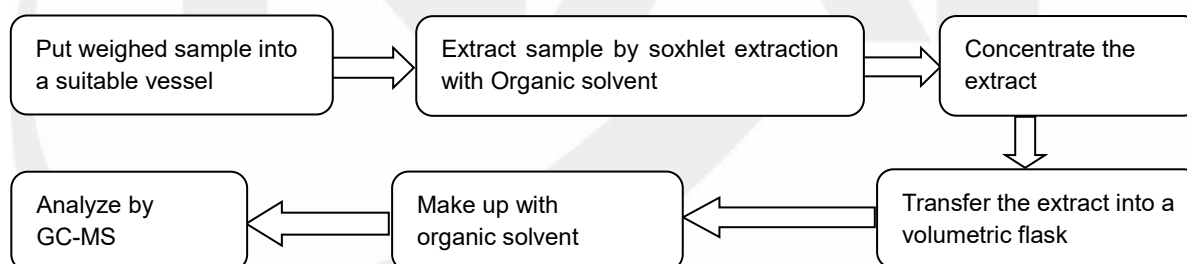
3.2 others



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):



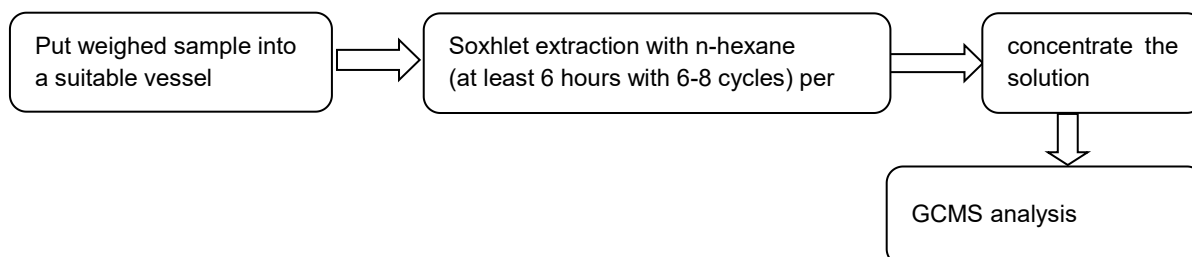
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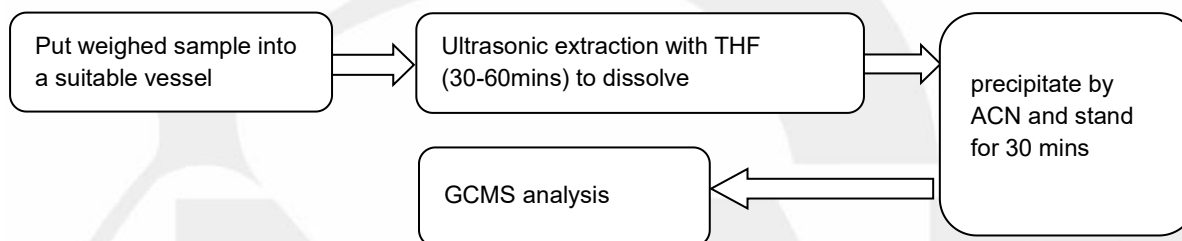
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6. Test for Phthalate content (DEHP,BBP,DBP,DIBP) (IEC 62321-8 Ed1.0:2017):

6.1 Test for general polymer



6.2 Test for THF soluble polymer



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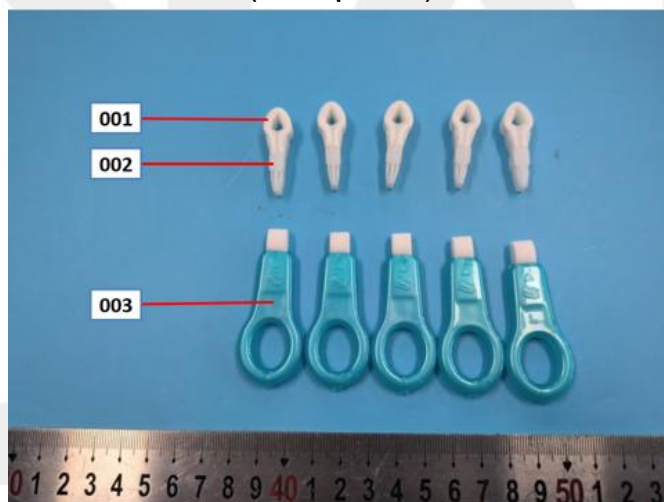
Sample description:

- (001) Melamine foam
- (002) White plastic buckle
- (003) Blue plastic

Photo(s) of test sample(s):



(Whole product)



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

