

Test Report

No.: NGBMR23000265104

Date: February 13, 2023

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customer name: Formosa Plastics Industrial (Ningbo) Co., Ltd.

Customer Address: Ningbo Industrial Park, a Formosa Plastics-related enterprise in Xiapu Town, Beilun District, Ningbo, China

Sample Name: Random copolymer of polypropylene
Material grade: 5090T
manufacturer: Formosa Plastics Industrial (Ningbo) Co., Ltd.
Customer reference information: 5003、5003H、5050、5050M、5070、5070M、5250T、5200XT、
5200M、5300GT、5450XT、5600XT、5012XT、5800T、5061、5062、
5650HT、5650ET、5010HT、5220XT

The above samples and information were provided by the customer.

SGS Work Number: NBIN2302000044PC
Sample Collection Date: February 7, 2023
Testing cycle: February 7, 2023 – February 13, 2023
Testing Requirements: Testing shall be conducted in accordance with the customer's requirements.
test method: See the following page.
detection result: See the following page.

Testing Requirements	Conclusion
Amendment to Annex II of the EU RoHS Directive 2011/65/EU (EU) 2015/863 – Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di(2-ethylhexyl) phthalate (DEHP), and diisobutyl phthalate (DIBP)	Accord with

Authorized signature of the Ningbo Branch of
Tongbiao Standard Technical Services Co., Ltd.

李庆刚

Li Qinggang
approved signatory

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NGBMR23000265104



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detection result:

Visual description of the inspection component:

Sample No.	Sample No.	SGS Sample ID	Sample Description
SN1	2	NGB23-0002651-0001.C002	Translucent solid particles

remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not detected (<MDL)
- (4) "-" = Not specified

Amendment to Annex II of the EU RoHS Directive 2011/65/EU (EU) 2015/863 – Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di(2-ethylhexyl) phthalate (DEHP), and diisobutyl phthalate (DIBP)

Testing method: Refer to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, and IEC 62321-6: 2015 and IEC 62321-8: 2017, employing ICP-OES, UV-Vis, and GC-MS for analysis.

Surveillance project	Limit value	Unit	MDL	2
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury(Hg)	1000	mg/kg	2	ND
Hexavalent chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of polybrominated biphenyls (PBBs)	1000	mg/kg	-	ND
MonoBB	-	mg/kg	5	ND
Di-bromobiphenyl (DiBB)	-	mg/kg	5	ND
Tri-bromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetra-biphenyl (TetraBB)	-	mg/kg	5	ND
PentaBB	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
HeptaBB	-	mg/kg	5	ND
OctaBB	-	mg/kg	5	ND
NonaBB	-	mg/kg	5	ND
DecaBB	-	mg/kg	5	ND
Sum of polybrominated diphenyl ethers (PBDEs)	1000	mg/kg	-	ND
Mono-BDE	-	mg/kg	5	ND
Di(2-bromodiphenyl)ether (DiBDE)	-	mg/kg	5	ND
TriBDE	-	mg/kg	5	ND
Tetrabromodiphenyl ether (TetraBDE)	-	mg/kg	5	ND
PentaBDE	-	mg/kg	5	ND
Hexabromodiphenyl ether (HexaBDE)	-	mg/kg	5	ND
HeptaBDE	-	mg/kg	5	ND
OctaBDE	-	mg/kg	5	ND



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Surveillance project	Limit value	Unit	MDL	2
NonaBDE	-	mg/kg	5	ND
DecaBDE	-	mg/kg	5	ND
Di(2-Butylphthalate) (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Di(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

remarks:

- (1) The maximum permissible limits are derived from the RoHS Directive (EU) 2015/863.
- (2) The IEC 62321 series is equivalent to the EN 62321 series.
- (3) As of July 22, 2021, the restrictions on DEHP, BBP, DBP, and DIBP shall apply to medical devices, including in vitro medical devices and monitoring instruments, including industrial monitoring and control instruments.

Unless otherwise specified, conformity assessment shall be performed using a simple acceptance (w=0) binary decision rule, in accordance with ILAC-G8:09/2019. Unless otherwise specified, the results of this report shall only be liable for the samples tested. No part of this report may be reproduced without the prior written permission of the Company.



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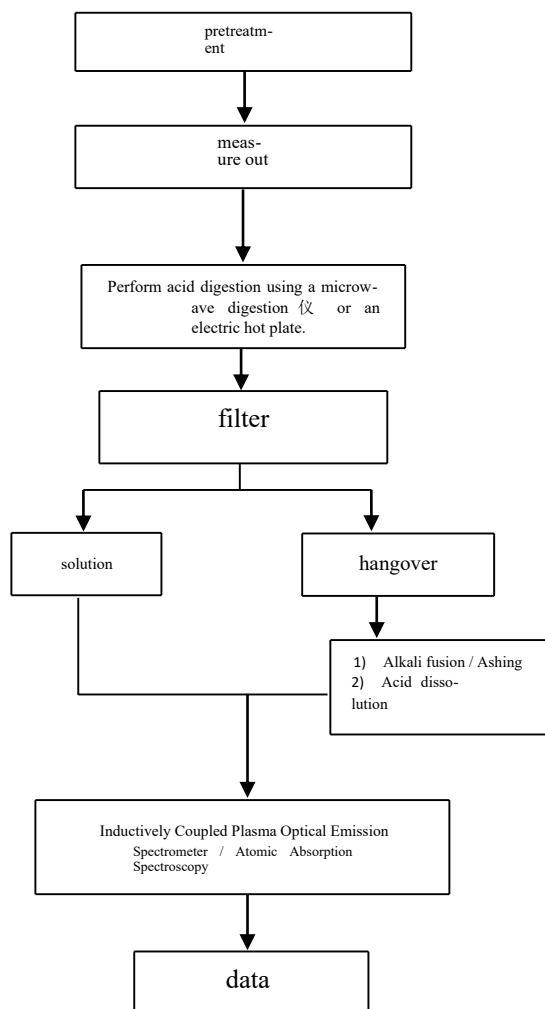
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Test Flowchart for Elements (IEC62321)

The samples were completely digested according to the following procedure.



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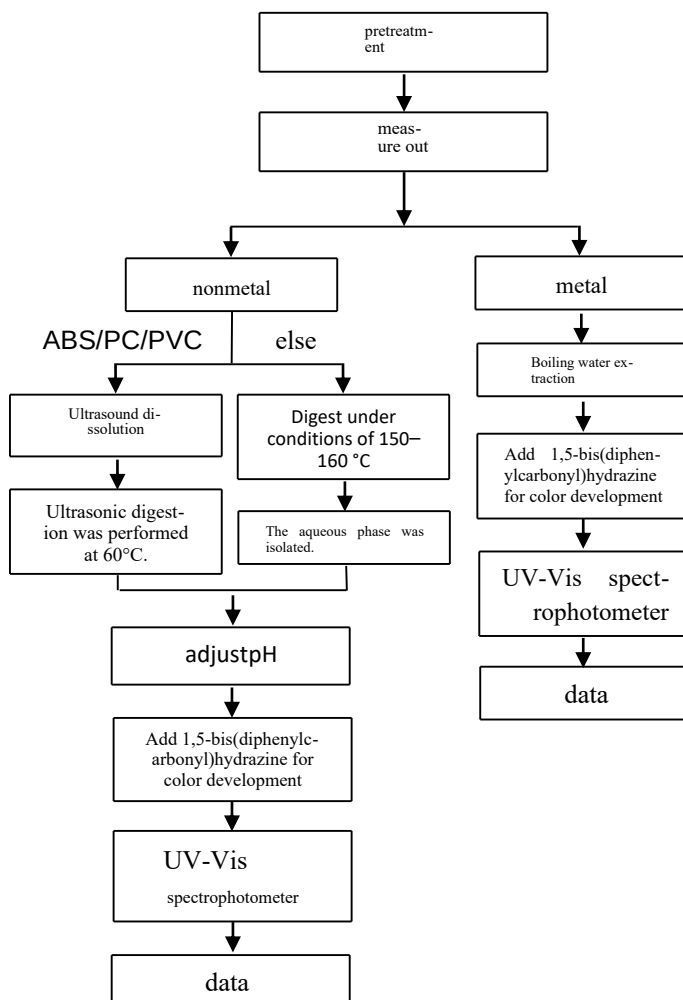
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Flowchart for Hexavalent Chromium Detection



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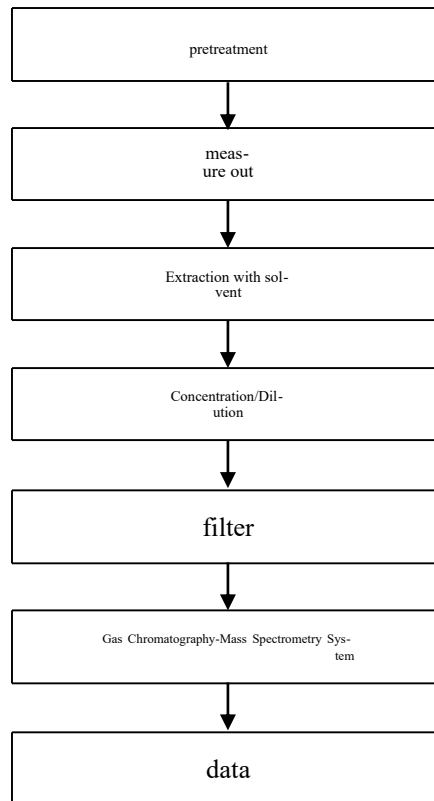
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Phthalate Detection Flowchart



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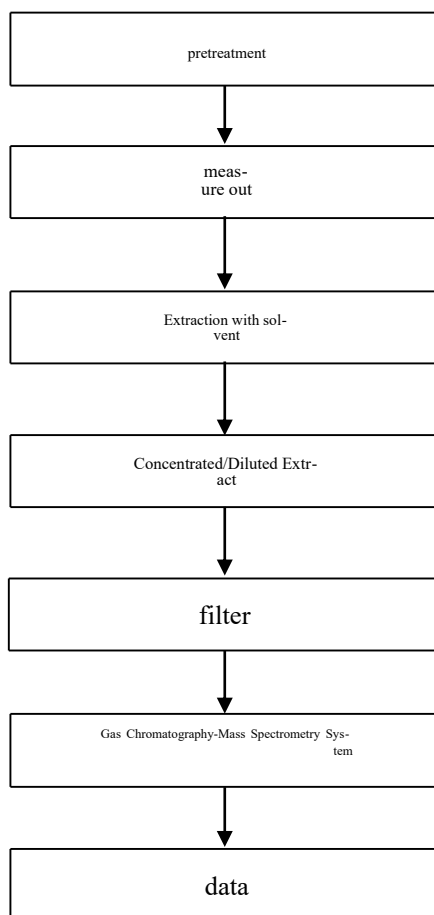
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PBBs/PBDEs Detection Flowchart



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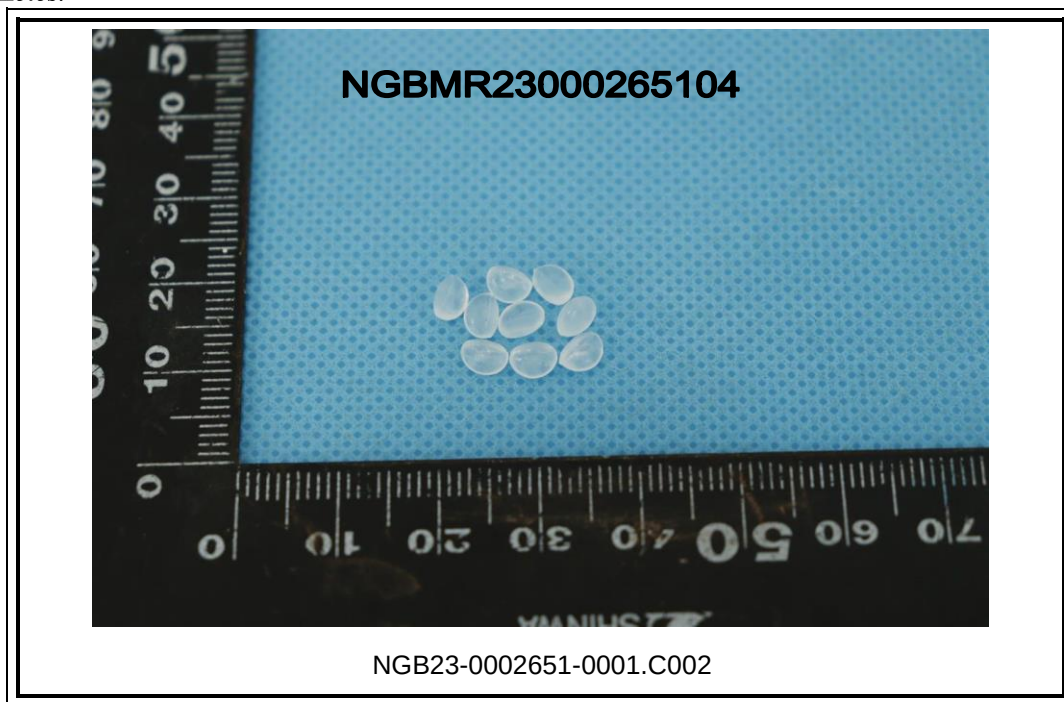
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Sample Photos:



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