

Job Ref. CRS/2020-01-10-014

INOAC CORPORATION

3-1-36 IMAIKE-CHO, ANJO, AICHI, JAPAN 446-8504

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

SAMPLE DESCRIPTION : PRODUCT CATEGORY : RUBBER SPONGE

TYPE : GOMSPOR ITEM : TT-4103 COLOR : Black

SAMPLE RECEIVED : 10/01/2020

TESTING PERIOD : 30/01/2020 to 12/02/2020

TEST REQUESTED : Selected test(s) as requested by customer

TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-

TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-

SIGNED FOR AND ON BEHALF OF SGS (MALAYSIA) SDN BHD

ONG SENG WEE
SECTION HEAD
IKM NO. M/4596/6939/14/16

Test Report Form No.: SGS/TR/CRS/010, Ver: 5.0, Effective Date: 13/01/2020

Page 1 of 5



Job Ref. CRS/2020-01-10-014

TEST RESULTS: Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Item(s):	Unit	Test Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.	N.D.	2	Max 100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.	N.D.	2	Max 1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.	N.D.	2	Max 1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	N.D.	8	Max 1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	Max 1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

SIGNED FOR AND ON BEHALF OF SGS (MALAYSIA) SDN BHD

ONG SENG WEE
SECTION HEAD
IKM NO. M/4596/6939/14/16

Test Report Form No.: SGS/TR/CRS/010, Ver: 5.0, Effective Date: 13/01/2020

Page 2 of 5



Job Ref. CRS/2020-01-10-014

TEST RESULTS: Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Item(s):	Unit	Test Method	Result	MDL	Limit
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	Max 1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

Note: (a) mg/kg = ppm; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

SIGNED FOR AND ON BEHALF OF SGS (MALAYSIA) SDN BHD

ONG SENG WEE
SECTION HEAD
IKM NO. M/4596/6939/14/16

Test Report Form No.: SGS/TR/CRS/010, Ver: 5.0, Effective Date: 13/01/2020

Page 3 of 5

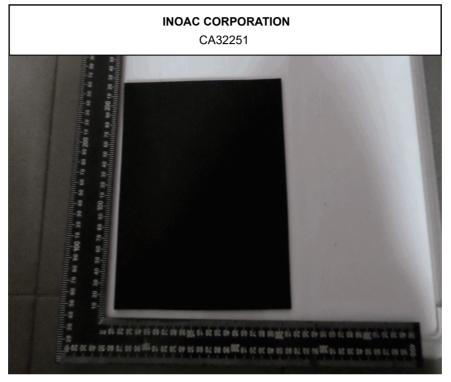
Member of the SGS Group (SGS SA)



Job Ref. CRS/2020-01-10-014

Test Part Description:

Sample Description: -PLEASE REFER TO PAGE 1-



SGS authenticate the photo on original report only

SIGNED FOR AND ON BEHALF OF SGS (MALAYSIA) SDN BHD

ONG SENG WEE
SECTION HEAD
IKM NO. M/4596/6939/14/16

Test Report Form No.: SGS/TR/CRS/010, Ver: 5.0, Effective Date: 13/01/2020

Page 4 of 5



TEST REPORT:

No. CRSPG/200233440-CA32251 Job Ref. CRS/2020-01-10-014

2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013

REPORTED DATE: 12/02/2020

Sample Receiving and Registration

Sample Preparation

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion

"Totally Dissolved"

Filtration

Analyses by ICP

Sample Receiving and Registration Sample Preparation Weight sample (0.2-0.5g) into digestion vessel Acid digestion "Totally Dissolved"

1. DETERMINATION OF CADMIUM CONTENT BY

IEC 62321-5 2013

Filtration

Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013/AMD1 2017

Sample Receiving and Registration

Sample Preparation

Weight sample (0.1-0.5g) into digestion vessel

Acid digestion

"Totally Dissolved"

Filtration

Analyses by ICP

4a. <u>DETERMINATION OF HEXAVALENT CHROMIUM</u> BY IEC 62321-7-2 2017 (Other Materials)

Sample Receiving and Registration

Sample Preparation

Digestion at 150~180°C

Separating to Obtain Aqueous Phase

pH Adjustment

Add Diphenyl-Carbazide for Color Development

Analyses by UV- Spectrophotometer (540 nm)

4b. <u>DETERMINATION OF HEXAVALENT CHROMIUM</u> BY IEC 62321-7-2 2017 (Soluble Polymers)

Sample Receiving and Registration

Sample Preparation

Add Digestion Solution

Ultrasonicate Sample

pH Adjustment

Add Diphenyl-Carbazide for Color Development

Analyses by UV- Spectrophotometer (540 nm)

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 623321-6 2015

Sample Preparation

Weigh sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 µm membrane filter

Analyses by GC-MS (with appropriate dilution)

SIGNED FOR AND ON BEHALF OF SGS (MALAYSIA) SDN BHD

ONG SENG WEE
SECTION HEAD
IKM NO. M/4596/6939/14/16

Test Report Form No.: SGS/TR/CRS/010, Ver: 5.0, Effective Date: 13/01/2020

*** End of test report ***

Page 5 of 5

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/terms-and-conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com/en/terms-and-conditions/terms-e-document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 14 days (for perishable samples) or 90 days only.