

Test Report

No. CRSPG/01362/18
CRS Ref. CRSPG/18/0364/Inoac

Date : 25/01/2019

Page: 1 of 5

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

The following merchandise was (were) submitted and identified by the client as:

Product Category : Rubber Sponge
Type : GOMSPOR
Item : NBR-4413E
Colour : Black
Sample Receiving Date : 27/12/2018
Testing Period : 27/12/2018 to 25/01/2019

Test Requested : Selected test(s) as requested by client
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Analysts : Eng Qian Yi

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LEE HUI MIN
B.Sc.(HONS) MMIC
SENIOR CHEMIST

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Page: 2 of 5

Test results:

Test Part Description :

Sample Description : As per page 1 & 4

RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	N.D.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	N.D.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013/AMD1:2017 (Determination of Hg by ICP-OES)	N.D.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-Vis)	N.D.	8	1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-

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Test Report

No. CRSPG/01362/18

Date : 25/01/2019

Page: 3 of 5

CRS Ref. CRSPG/18/0364/Inoac

Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE 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

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Page: 4 of 5

Test Part Description :

Product Category : Rubber Sponge
Type : GOMSPOR
Item : NBR-4413E
Colour : Black

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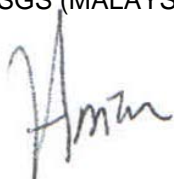
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<p>1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013</p> <p>Sample Receiving and Registration</p> <p>↓</p> <p>Cut sample in small pieces</p> <p>↓</p> <p>Weight sample (0.2-0.5g) into digestion vessel</p> <p>↓</p> <p>Acid digestion (Microwave)</p> <p>↓</p> <p>"Totally Dissolved"</p> <p>↓</p> <p>Filtration</p> <p>↓</p> <p>Analyses by ICP</p>	<p>2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013</p> <p>Sample Receiving and Registration</p> <p>↓</p> <p>Cut sample in small pieces</p> <p>↓</p> <p>Weight sample (0.2-0.5g) into digestion vessel</p> <p>↓</p> <p>Acid digestion (Microwave)</p> <p>↓</p> <p>"Totally Dissolved"</p> <p>↓</p> <p>Filtration</p> <p>↓</p> <p>Analyses by ICP</p>
<p>3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013/AMD1 2017</p> <p>Sample Receiving and Registration</p> <p>↓</p> <p>Cut sample in small pieces</p> <p>↓</p> <p>Weight sample (0.1-0.5g) into digestion vessel</p> <p>↓</p> <p>Acid digestion (Microwave)</p> <p>↓</p> <p>"Totally Dissolved"</p> <p>↓</p> <p>Filtration</p> <p>↓</p> <p>Analyses by ICP</p>	<p>4a. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 (Other Materials)</p> <p>Sample Preparation</p> <p>↓</p> <p>Digestion at 150-160°C</p> <p>↓</p> <p>Separating To Obtain Aqueous Phase</p> <p>↓</p> <p>pH Adjustment</p> <p>↓</p> <p>Add Diphenyl-Carbazide for Color Development</p> <p>↓</p> <p>Analyses by UV- Spectrophotometer (540 nm)</p>
<p>4b. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 (Soluble Polymers)</p> <p>Sample Preparation</p> <p>↓</p> <p>Add Digestion Solution</p> <p>↓</p> <p>Ultrasonicate Sample</p> <p>↓</p> <p>pH Adjustment</p> <p>↓</p> <p>Add Diphenyl-Carbazide for Color Development</p> <p>↓</p> <p>Analyses by UV- Spectrophotometer (540 nm)</p>	<p>5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015</p> <p>Sample Preparation</p> <p>↓</p> <p>Weight sample (0.5-4.0g) into extraction thimble</p> <p>↓</p> <p>Soxhlet Extraction with Toluene</p> <p>↓</p> <p>Filter through 0.45 um membrane filter</p> <p>↓</p> <p>Analyses by GC-MS (with appropriate dilution)</p>

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**** End of Report ****



LEE HUI MIN
B.Sc.(HONS) MMIC
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