

Test Report

REPORT NO. : CRSPG/00538/16
CRS REF. : CRSPG/16/0042/INOAC
DATE REPORTED : 14th Mar., 2016
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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 : Polyolefin Foam
Type : PE-LITE
Item : A-062F
Colour : Black
Sample Receiving : 18/02/2016
Testing Date : 18/02/2016 to 14/03/2016

Test Result : Please see the next page

Analysts : Lee Hui Min & Ong Seng Wee

SGS (MALAYSIA) SDN. BHD.



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Test Result

Product Category : Polyolefin Foam
Type : PE-LITE
Item : A-062F
Colour : Black

Test Item (s) :	Unit	Method	MDL	Result	Limit
Chromium VI (Cr6+)	ppm	IEC 62321 : 2008 Annex C	2	N.D.	1000
Cadmium (Cd)	ppm	IEC 62321-5 : 2013	2	N.D.	100
Mercury (Hg)	ppm	IEC 62321-4 : 2013	2	N.D.	1000
Lead (Pb)	ppm	IEC 62321-5 : 2013	2	N.D.	1000

NOTE: (a) N.D. = Not detected (<MDL)
 (b) ppm = mg/kg
 (c) MDL= Method Detection Limit

Analysts : Lee Hui Min & Ong Seng Wee

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Test Result

Product Category : Polyolefin Foam
 Type : PE-LITE
 Item : A-062F
 Colour : Black

Test Item (s) :	Unit	Method	MDL	Result	Limit
PBBs (Polybrominated Biphenyls)					
Monobromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	1000
Dibromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Tribromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Tetrabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Pentabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Hexabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Heptabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Octabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Nonabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Decabromo Biphenyl	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
PBDEs (Polybrominated Diphenyl ethers)					
Monobromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	1000
Dibromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Tribromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Tetrabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Pentabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Hexabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Heptabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Octabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Nonabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	
Decabromo Diphenyl Ether	ppm	GCMS as per IEC 62321-6 : 2015	5	N.D.	

NOTE: (a) N.D. = Not detected (<MDL)
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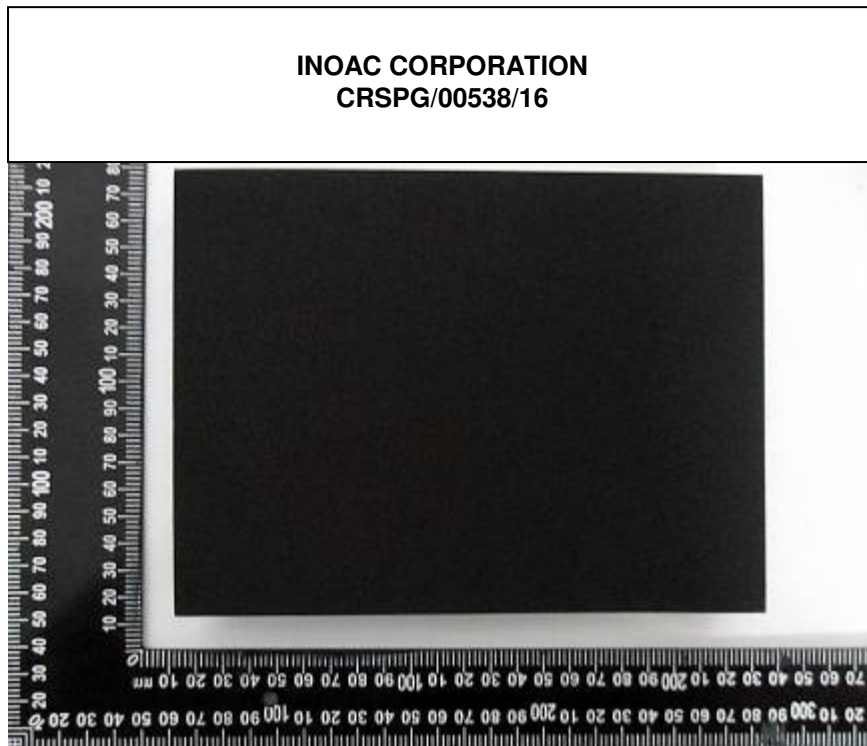
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Test Result

Product Category : Polyolefin Foam
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1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (0.2-0.5g) into digestion vessel
 ↓
 Acid digestion (Microwave)
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

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

Sample Receiving and Registration
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (0.2-0.5g) into digestion vessel
 ↓
 Acid digestion (Microwave)
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

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

Sample Receiving and Registration
 ↓
 Cut sample in small pieces
 ↓
 Weight sample (0.1-0.5g) into digestion vessel
 ↓
 Acid digestion (Microwave)
 ↓
 "Totally Dissolved"
 ↓
 Filtration
 ↓
 Analyses by ICP

4. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321 2008

Sample Preparation
 ↓
 Add colour-developing reagent
 ↓
 Acidify with H₂SO₄
 ↓
 Let stand for 5-10 min
 ↓
 Analyses by UV- Spectrophotometer (540 nm)

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015

Cut sample in small pieces
 ↓
 Weight sample (0.5-4.0g) into extraction thimble
 ↓
 Soxhlet Extraction with Toluene
 ↓
 Filter through 0.45 um membrane filter
 ↓
 Analyses by GC-MS (with appropriate dilution)

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