

Test Report

No. CRSSA/02395-2/18
CRS Ref. CRSSA/18/0494/EQX

Date : 06/03/2018

Page: 1 of 7

EQX MATERIALS SDN BHD
PMT 1159, LORONG PERINDUSTRIAN BUKIT MINYAK 22
PENANG SCIENCE PARK, TAMAN PERINDUSTRIAN BUKIT MINYAK
14100 SIMPANG AMPAT, PENANG

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

Sample Description : SILICONE COMPOUND TSE 3051
Sample Receiving Date : 26/02/2018
Testing Period : 26/02/2018 to 06/03/2018

Test Results : Please refer to next page.

Analysts : Nurfarahima Ibrahim, Tan Mei Ann & Chew Jia Jia

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Test Report

No. CRSSA/02395-2/18
CRS Ref. CRSSA/18/0494/EQX

Date : 06/03/2018

Page: 2 of 7

Test results by chemical method:

Test Item (s) :	Unit	Method	Results	MDL
Antimony (Sb)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES	N.D.	2
Halogen	---	---	---	---
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC method for Fluorine content.	N.D.	50
Halogen-Chlorine (Cl)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC method for Chlorine content.	N.D.	50
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC method for Bromine content.	N.D.	50
Halogen-Iodine (I)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC method for Iodine content.	N.D.	50

Test Part Description:

Sample Description : SILICONE COMPOUND TSE 3051

- Note :
- (a) mg/kg = ppm
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) --- = Not Conducted
 - (e) Testing is based on original basis

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No. CRSSA/02395-2/18
CRS Ref. CRSSA/18/0494/EQX

Date : 06/03/2018

Page: 3 of 7

Test results by chemical method:

Test Item (s):	Unit	Method	Result	MDL
Phthalates	---	---	---	---
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	100
Di-ethyl phthalate (DEP) (CAS No.: 84-66-2)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	30
Di-methyl phthalate (DMP) (CAS No.: 131-11-3)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	30
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	30
Diisoheptyl phthalate(DIHP) (CAS No.: 71888-89-6)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	30
Bis (2-methoxyethyl) phthalate) (DMEP) (CAS No.: 000117-82-8)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	30
Di-isodecyl phthalate(DIDP) (CAS No.: 026761-40-0)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	100
Di-n-octyl phthalate(DNOP) (CAS No.: 000117-84-0)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	N.D.	30

Test Part Description :

Sample Description : SILICONE COMPOUND TSE 3051

- Note : (a) N.D. = Not Detected
(b) MDL = Method Detection Limit
(c) --- = Not Conducted
(d) Testing based on original basis

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CRS Ref. CRSSA/18/0494/EQX

Date : 06/03/2018

Page: 4 of 7

Test Method: With reference to CEN/TS 15968. Analysis was conducted by LC-MS.

	<u>Result (%)</u>	<u>Max. Limit (µg/m²) (Textile/Coated material)</u>	<u>Max.Limit(%) (Plastic)</u>	<u>Max. Limit(%) (Substances or in mixtures)</u>
	1			
PFOS ^	N.D.	1	0.1	0.001
PFOA	N.D.	/	/	/
Conclusion	PASS			

Note: N.D. = Not Detected
* = exceeds the limit

Detection limit = 1 µg/m² for Textile / Coated Material
= 0.001% for Plastic, substances or mixtures

Remark: Max. limit specified by commission regulation (EU) No. 757/2010 amending Regulation (EC) No 850/2004 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)

^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol

Test Part Description :

Sample Description : SILICONE COMPOUND TSE 3051

Note : (a) N.D. = Not Detected = < MDL
(b) MDL = Method Detection Limit
(c) --- = Not Conducted
(d) Testing is based on original basis

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No. CRSSA/02395-2/18
CRS Ref. CRSSA/18/0494/EQX

Date : 06/03/2018

Page: 5 of 7

Test Part Description :

Sample Description : SILICONE COMPOUND TSE 3051-1KG



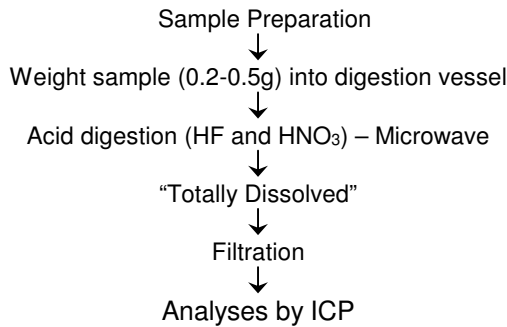
SGS authenticate the photo on original report only

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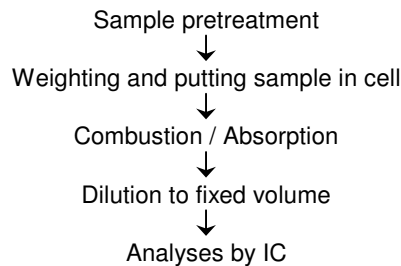
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1. MICROWAVE ASSISTED ACID DIGESTION OF SILICEOUS AND ORGANICALLY BASED METRICES (US EPA 3052)



DETERMINATION OF HALOGEN CONTENT BY EN 14582 2016



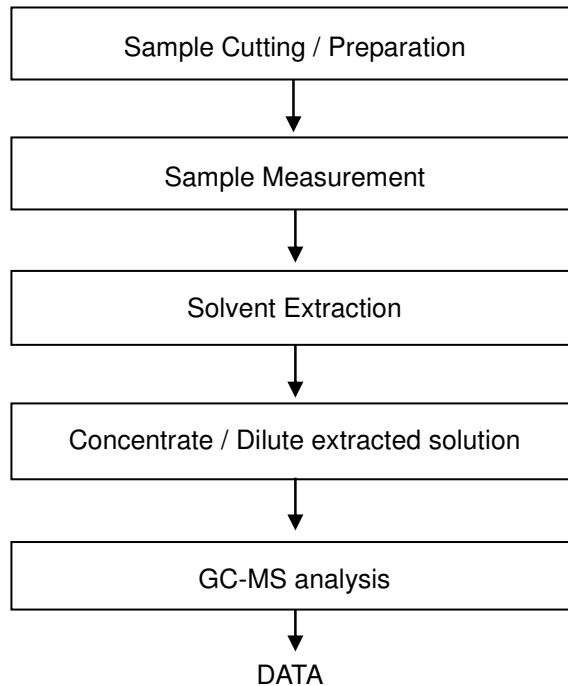
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Flowchart for Phthalates Measurement

Method: IEC62321



****End of Report****

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