

TEST REPORT

APPLICANT : KANSAIZUMI CO., LTD.
ADDRESS : 477-1, Rokubuichi, Inamicho, Kako,
Hyogopref, 675-1112 Japan

PAGE: 1 of 5

REPORT NO. RT17R-U2106-002-E

DATE: Dec. 14, 2017

SAMPLE DESCRIPTION : The following submitted sample(s) said to be:-

NAME/TYPE OF PRODUCT : AIR CELL MAT(ANTISTATIC)
NAME OF MATERIAL : Polyethelene
SAMPLE ID NO. : RT17R-U2106-002
MANUFACTURER/VENDOR : KANSAIZUMI CO., LTD.

SAMPLE RECEIVED : Dec. 11, 2017
TESTING DATE : Dec. 11, 2017 ~ Dec. 14, 2017

TEST METHOD(S) : Please see the following page(s).
TEST RESULT(S) : Please see the following page(s).

* Note 1 : The test results presented in this report relate only to the object tested.

* Note 2 : This report shall not be reproduced except in full without the written approval of the testing laboratory.

Approved by,



E.Y.Lee / Lab. Technical Manager

Authorized by,



H.W.Yoo / Lab. General Manager



Authenticity check

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REPORT NO. RT17R-U2106-002-E

SAMPLE ID NO. : RT17R-U2106-002

SAMPLE DESCRIPTION : AIR CELL MAT(ANTISTATIC)

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 Edition 1.0 : 2013, by acid digestion and determined by ICP-OES	0.5	N.D.
Lead (Pb)	mg/kg		5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 Edition 1.0 : 2013, by acid digestion and determined by ICP-OES	2	N.D.
Hexavalent Chromium (Cr ⁶⁺) (For non-metal)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1	N.D.
Polybrominated Biphenyl (PBBs)				
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS	5	N.D.
Dibromobiphenyl	mg/kg		5	N.D.
Tribromobiphenyl	mg/kg		5	N.D.
Tetrabromobiphenyl	mg/kg		5	N.D.
Pentabromobiphenyl	mg/kg		5	N.D.
Hexabromobiphenyl	mg/kg		5	N.D.
Heptabromobiphenyl	mg/kg		5	N.D.
Octabromobiphenyl	mg/kg		5	N.D.
Nonabromobiphenyl	mg/kg		5	N.D.
Decabromobiphenyl	mg/kg		5	N.D.
Polybrominated Diphenyl Ether (PBDEs)				
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS	5	N.D.
Dibromodiphenyl ether	mg/kg		5	N.D.
Tribromodiphenyl ether	mg/kg		5	N.D.
Tetrabromodiphenyl ether	mg/kg		5	N.D.
Pentabromodiphenyl ether	mg/kg		5	N.D.
Hexabromodiphenyl ether	mg/kg		5	N.D.
Heptabromodiphenyl ether	mg/kg		5	N.D.
Octabromodiphenyl ether	mg/kg		5	N.D.
Nonabromodiphenyl ether	mg/kg		5	N.D.
Decabromodiphenyl ether	mg/kg		5	N.D.

Tested by : JH Jin, BJ Ha

Notes : mg/kg = ppm = parts per million
 < = Less than
 N.D. = Not detected (<MDL)
 MDL = Method detection limit

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DATE: Dec. 14, 2017

REPORT NO. RT17R-U2106-002-E

SAMPLE ID NO. : RT17R-U2106-002
SAMPLE DESCRIPTION : AIR CELL MAT(ANTISTATIC)

TEST ITEM	CAS NO.	UNIT	TEST METHOD	MDL	RESULT
Phthalates					
Dibutyl phthalate (DBP)	84-74-2	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017, by solvent extraction and determined by GC/MS	50	N.D.
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg		50	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg		50	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg		50	N.D.

Tested by : JH Jin

Notes : mg/kg = ppm = parts per million
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* View of sample as received;-



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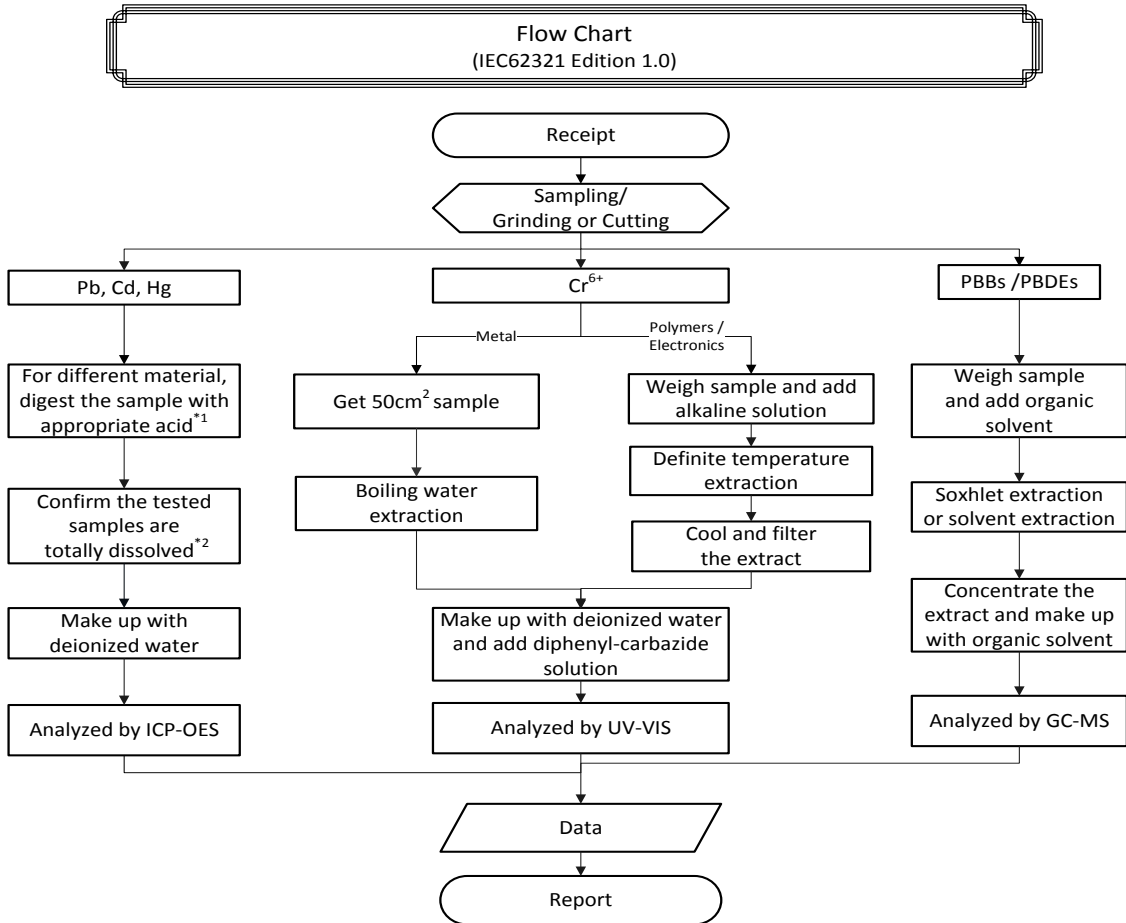
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SAMPLE ID NO. : RT17R-U2106-002

SAMPLE DESCRIPTION : AIR CELL MAT(ANTISTATIC)



Remarks :

*1 : List of appropriate acid :

Material	Acid added for digestion
Polymers	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
Metals	HNO ₃ , HCl, HF
Electronics	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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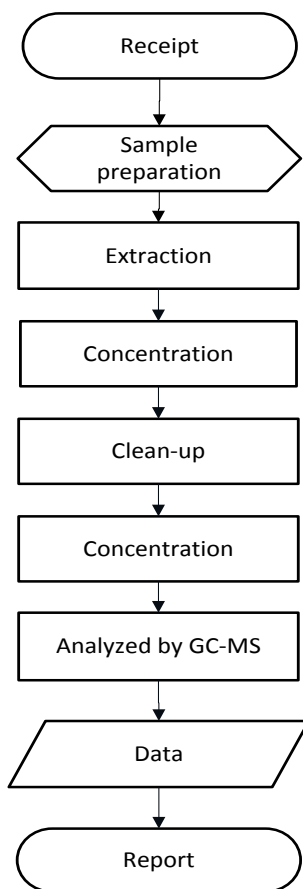
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DATE: Dec. 14, 2017

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SAMPLE DESCRIPTION : AIR CELL MAT(ANTISTATIC)

Flow Chart (Phthalates)



***** End of Report *****

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