

Applicant : UTIS

Address: 652-10, Choji-dong, Danwon-ku,

Ansan-city, Gyeonggi-do, Korea

Page: 1 of 5

Report No. RT11R-S0932-007-E Date: Mar. 11, 2011

Sample Description : The following submitted sample(s) said to be:-

Name/Type of Product : eSORBA SRP

Sample ID No. : RT11R-S0932-007

Item No. : SR A-SD, SR A-BP, SR C-SD, SR C-HL

Manufacturer/Vender : UTIS

Sample received : Mar. 08, 2011

Testing Date : Mar. 08, 2011 ~ Mar. 11, 2011

Testing Environment : Temperature : (24 ± 2) $^{\circ}$ C, Humidity : (60 ± 5) $^{\circ}$ R.H.

Test Type : RoHS wet chemical analysis

Test Method(s) : Please see the following page(s).

Test Result(s) : Please see the following page(s).

Approved by, Authorized by,

Jade Jang / Lab. Technical Manager

268

Bo Park / Lab. General Manager

^{*} 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.

^{*} Note 3: The item no. is assigned by client and indicated according to their requirement and guarantee letter.



Page: 2 of 5
Report No. RT11R-S0932-007-E
Date: Mar. 11, 2011

Sample ID No. : RT11R-S0932-007 Sample Description : eSORBA SRP

Test Item	Unit	Test Method	MDL	Result		
Cadmium (Cd)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	0.5	N.D.		
Lead (Pb)	mg/kg		5	N.D.		
Mercury (Hg)	mg/kg		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		5	N.D.		
Dibromobiphenyl	mg/kg		5	N.D.		
Tribromobiphenyl	mg/kg		5	N.D.		
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	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 Edition 1.0 : 2008, 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: Nikkie Lee, Leo Kim, Ellen Jung, Jessica Kang

Notes: mg/kg = ppm = parts per million

< = Less than

N.D. = Not detected (< MDL)MDL = Method detection limit



Page: 3 of 5
Report No. RT11R-S0932-007-E
Date: Mar. 11, 2011

Sample ID No. : RT11R-S0932-007 Sample Description : eSORBA SRP

Test Item	Unit	Test Method	MDL	Result
Bromine (Br)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Chlorine (CI)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Fluorine (F)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
lodine (I)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.

Tested by: Nikkie Lee

Notes: mg/kg = ppm = parts per million

 \leq = Less than

N.D. = Not detected (<MDL)
MDL = Method detection limit

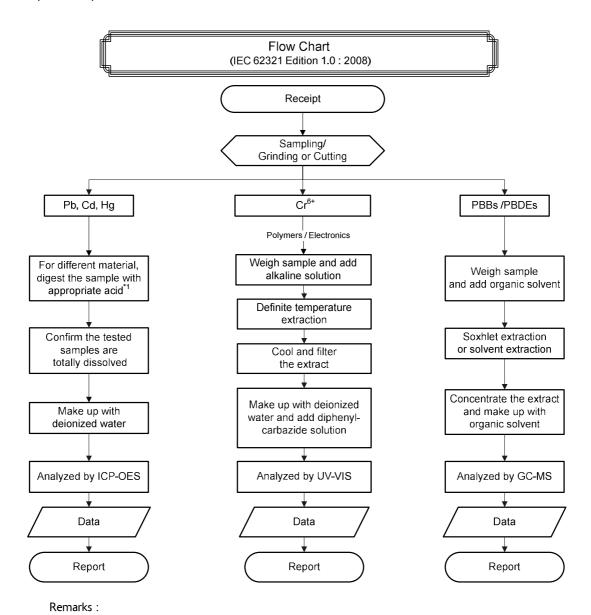
^{*} View of sample as received;-





Page: 4 of 5
Report No. RT11R-S0932-007-E
Date: Mar. 11, 2011

Sample ID No. : RT11R-S0932-007 Sample Description : eSORBA SRP



*1 : List of appropriate acid :

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

This Test Report is issued by the Company subject to its Terms and Conditions of Business printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This Test Report shall not be reproduced, except in full, without prior written consent of the Company.

Intertek Testing Services Korea Ltd.



Page: 5 of 5
Report No. RT11R-S0932-007-E
Date: Mar. 11, 2011

Sample ID No. : RT11R-S0932-007 Sample Description : eSORBA SRP

Flow Chart (Halogen)

