

Applicant : Doosan Corporation Electro-Materials BG				
Address : Doosan Technical Center Bldg. 39-3 Sungbok-dong, Suji-gu,				
Yongin-si, Gyeonggi-do, Korea				
		Page: 1 of 4		
Report No. RT14R-S1258-05	53-E1	Date: Mar. 11, 2014		
Sample Description	: The following submitted sample(s) said to be:-			
Name/Type of Product	: DS-7408			
Sample ID No.	: RT14R-S1258-053			
Manufacturer/Vendor	: Doosan Corporation Electro-Materials BG			
Complete and the d	Mar 05 2014			
Sample received	: Mar. 05, 2014			
Testing Date	: Mar. 05, 2014 ~ Mar. 11, 2014			
Test Type	: RoHS wet chemical analysis			
Test Method(s)	: Please see the following page(s).			
Test Result(s)	: Please see the following page(s).			
	5, 5			

* 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,

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Jade Jang / Lab. Technical Manager

Authorized by,

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Bo Park / Lab. General Manager

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Report No. RT14R-S1258-053-E1

Page: 2 of 4 Date: Mar. 11, 2014

Sample ID No. : RT14R-S1258-053 Sample Description : DS-7408

Test Item	Unit	Test Method	MDL	Result
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 Edition 1.0 :	0.5	N.D.
Lead (Pb)	mg/kg	2013, by acid digestion and determined by ICP-OES	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)	•			1
Monobromobiphenyl	mg/kg		5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	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 (I	PBDEs)			1
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			5	N.D.

Tested by : Seonae Kim, Hyojoo Kim, Misun Lee

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

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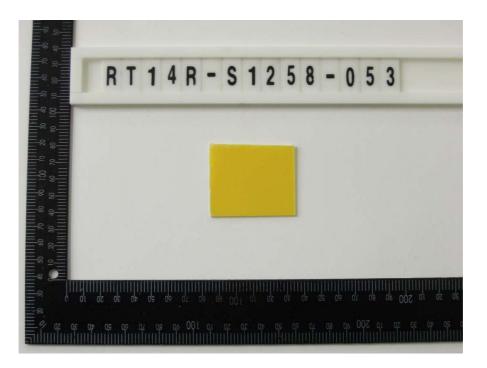


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Sample ID No. : RT14R-S1258-053 Sample Description : DS-7408

* View of sample as received;-



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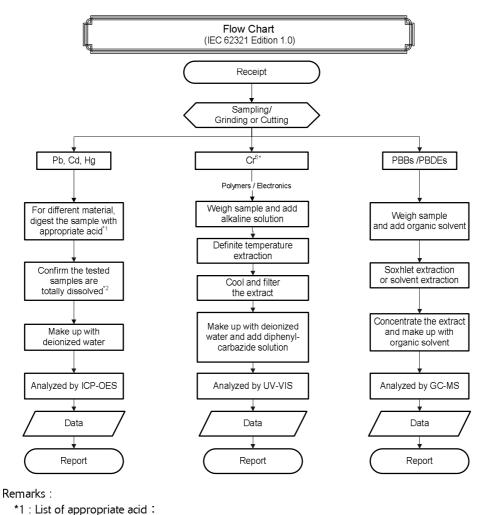
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Report No. RT14R-S1258-053-E1

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Sample ID No. : RT14R-S1258-053 Sample Description : DS-7408



Material	Acid added for digestion	
Polymers	HNO3, HCI, HF, H2O2, H3BO3	
Metals	HNO₃, HCI, HF	
Electronics	HNO3, HCI, H2O2, HBF4	

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

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

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