

Applicant : SHIN-ETSU SILICONE KOREA

Address : GT Tower 15F, 1317-23, Seocho-dong, Seocho-gu, Seoul, 137-070 Korea

> Page: 1 of 5 Date: Mar. 13, 2014

Report No. RT14R-S1342-001-E

Sample Description	: The following submitted sample(s) said to be:-	
Name/Type of Product	: KE-45	
Name of Material	: SILICONE	
Sample ID No.	: RT14R-S1342-001	
Manufacturer/Vendor	: SHIN-ETSU SILICONE KOREA	
Sample received	: Mar. 10, 2014	
Testing Date	: Mar. 10, 2014 ~ Mar. 13, 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).	

* 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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Intertek Testing Services Korea Ltd.



Report No. RT14R-S1342-001-E

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Sample ID No. : RT14R-S1342-001 Sample Description : KE-45

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)				
Monobromobiphenyl	mg/kg		5	N.D.
Dibromobiphenyl	mg/kg		5	N.D.
Tribromobiphenyl	mg/kg		5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to	5	N.D.
Pentabromobiphenyl	mg/kg	IEC 62321 Edition 1.0 : 2008,	5	N.D.
Hexabromobiphenyl	mg/kg	by solvent extraction and determined by GC/MS	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 (P	BDEs)			1
Monobromodiphenyl ether	mg/kg		5	N.D.
Dibromodiphenyl ether	mg/kg		5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	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 : 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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Report No. RT14R-S1342-001-E

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Sample ID No. : RT14R-S1342-001 Sample Description : KE-45

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 (Cl)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.

Tested by : Chanoh Kim

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

* View of sample as received;-



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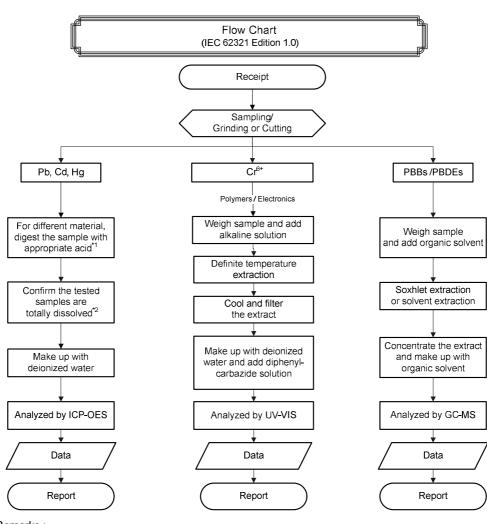
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Sample ID No. : RT14R-S1342-001 Sample Description : KE-45



Remarks :

*1 : List of appropriate acid :	
Material	Acid added for digestion
Polymers	HNO ₃ , HCI, HF, H ₂ O ₂ , H ₃ BO ₃
Metals	HNO3, HCI, 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.

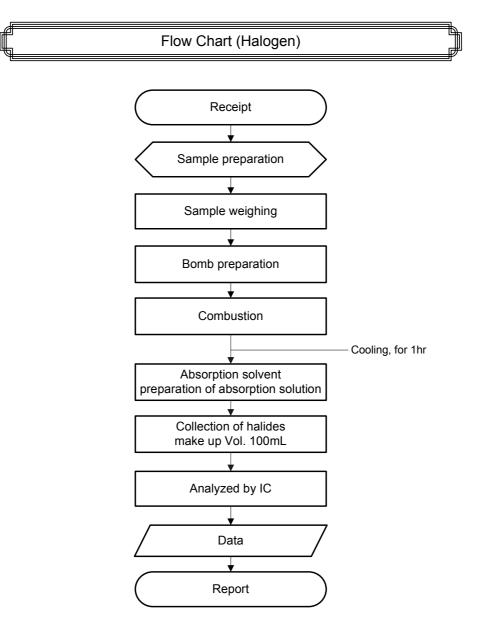
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Report No. RT14R-S1342-001-E

Sample ID No. : RT14R-S1342-001 Sample Description : KE-45



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

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Seoul Office: Tel : 02-6090-9500 Fax : 02-3409-0026 Daegu Office : Tel : 053-600-8647 Fax : 053-600-8645 Web Site : www.Intertek.co.kr Seoul Lab. Address : 1/F, A-ju Digital Tower, #284-56, Seongsu 2-ga, Seongdong-Gu, Seoul, 133-833 Korea Ulsan Lab. Address : #340-2, Yongam-Ri, Chongryang-Myun, Ulju-Gun, Ulsan 689-865 Korea

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