

Applicant : DUCKSUNG HITECH CO., LTD.

Address : #225-2, Shinneung-ri, Seoun-myeon, Anseong-si, Gyeonggi-do, Korea

		Page: 1 of 4
Report No. RT12R-U0024	Date: Jan. 17, 2012	
Sample Description	: The following submitted sample(s) said to be:-	
Name/Type of Product	: harness Tape	
Sample ID No.	: RT12R-U0024-042	
Item No.	: 265	
Manufacturer/Vender	: DUCKSUNG HITECH CO., LTD.	
Sample received	: Jan. 07, 2012	
Testing Date	: Jan. 07, 2012 ~ Jan. 17, 2012	
Testing Environment	: Temperature : (24 \pm 2) °C, Humidity : (60 ± 5) % R.H.
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.

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

Approved by,

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E.Y.Lee / Lab. Technical Manager

Authorized by,

H.W.Yoo / Lab. General Manager

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Intertek Testing Services Korea Ltd.

Seoul Office: Tel : 02-6090-9500 Fax : 02-3409-0026 Daegu Office : Tel : 053-600-8647 Fax : 053-600-8645 Web Site : <u>www.Intertek.co.kr</u> 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



Report No. RT12R-U0024-042-E

Page: 2 of 4 Date: Jan. 17, 2012

Sample ID No. : RT12R-U0024-042 Sample Description : harness Tape

Test Item	Unit	Test Method	MDL	Result		
Cadmium (Cd)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	0.5	3.3		
Lead (Pb)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	5	N.D.		
Mercury (Hg)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.		
Hexavalent Chromium (Cr ⁶⁺)	mg/kg	With reference to US EPA 3060A and determined by UV-VIS Spectrophotometer	1	N.D.		
Polybrominated Biphenyl (PBBs)						
Monobromobiphenyl	mg/kg	With reference to US EPA 3540C, 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 US EPA 3540C, 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 : YK Cho, HJ Kim, MB Song

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

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Report No. RT12R-U0024-042-E

Sample ID No. : RT12R-U0024-042 Sample Description : harness Tape

* View of sample as received;-



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Report No. RT12R-U0024-042-E

Sample ID No. : RT12R-U0024-042 Sample Description : harness Tape

> Flow Chart (EPA 3052 for Cd, Pb, Hg / EPA 3060A for Cr⁶⁺ / EPA 3540C for PBB/PBDE) Receipt Sample preparation Sample measurement NO Pb, Cd, Hg Cr⁶⁺ PBB/PBDE Add digestion solution (NaOH/Na₂CO₃) Soxhlet extraction with Microwave digestion phosphate buffer Toluene more than 10 hrs with HNO3 / HCI / HF (K₂HPO₄/KH₂PO₄), $MgCl_2$ Heating 95°C and stirring Concentraction for 60 minutes Toluene Cool, filter digestate Total digestion Analyzed by GC/MS through filter paper Dilution While stirring, adjust filtrate to appropriate final pH by Overrange calibration YĖS YES dropwise addition of curve . HNO₃/H₂SO₄ Analyzed by ICP-OES Analyzed by UV-VIS NO Data Report

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

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

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