

# Test Report

MAGNTEK ELECTRONIC INC.  
6F, NO.83, SEC.2, SIN-SHIN-5 RD., TAMSUI, TAIPEI  
HSIEN, TAIWAN 251

Report No. : CE/2006/53024  
Date : 2006/05/17  
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**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : 鋁散熱片 ALUMINUN HEATSINK  
Style/Item No : EPA4-HS-A1B, S9 PR 10/11/SE, S11 PR 17/15/SE,  
S12 PR 17/25/SE, S13 PR 17/35/SE,  
S22 PR19/20/SE, S31 PR5/25/SE, S2525 PR5/15/SE,  
S5687 PR5/25/SE/LS, SA14 IA60, SA 04 IA60B,  
SA 150 B04, SPACER 54, HC-282808B, HC-353510B,  
HC-373710P, HC-383806G, HC-383815P,  
HT-7512/120, HW-373715P, HC-142007B,  
EP401-HS-T-A1C, EN-USB-A1D, EN-USB-FP-A1B,  
EN-USB-RP-A1, TPOS-Q1-HS-A1, RADR0001 DF-253,  
RADR0036C, U3148-214498401, HS-391235F,  
HS-401925F, HS-351350F, HS-422525F, HS-422564F,  
HS-502250, HS-11026100, HC-141407, HC-210615,  
HC-252505, HC-252510, HC-282806M, HC-202010B,  
HC-252506B, HC-252510B, HC-282811B, HC-282815B,  
HC303010B, HC-353510B, HC-454510B, HC-282806P,  
HC-282810P, HC-282813P, HC-373710P, HC-373715P,  
HC-373720P, HC-373725P, HC-373730P, HC-383607P,  
HC-383625P, HC-424230P, HC-424238P

Others : 陽極黑色 BLACK ANODIZED  
Sample Received : 2006/05/10  
Testing Date : 2006/05/10 TO 2006/05/17

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**Test Result** : - Please see the next page -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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## Test Result

PART NAME NO.1 : BLACK METAL

Test Item (s):	Unit	Method	MDL	Result
				No.1
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%		0.0005	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.
Pentabromobiphenyl	%		0.0005	N.D.
Hexabromobiphenyl	%		0.0005	N.D.
Heptabromobiphenyl	%		0.0005	N.D.
Octabromobiphenyl	%		0.0005	N.D.
Nonabromobiphenyl	%		0.0005	N.D.
Decabromobiphenyl	%		0.0005	N.D.
<b>Total PBBs (Polybrominated biphenyls)/Sum of above</b>	%		-	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.
<b>Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above</b>	%		-	N.D.
<b>Total of Mono to Nona-brominated biphenyl ether. (Note 4)</b>	%	-	N.D.	

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	5.6

- NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit  
(4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.  
(5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.  
(6) " - " = Not Regulation

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