

NUMBER: SHAH00054994 TEST REPORT APPLICANT: BOURNS, INC. DATE: APR 30, 2008 1200 COLUMBIA AVE., RIVERSIDE, CA 92507-2114, USA SAMPLE DESCRIPTION: THREE (3) PIECES OF SUBMITTED SAMPLE SAID TO BE : ITEM NAME : SMD: LEAD FREE PLATING: MIXED ALL PARTS OF BODY (BLACK) NONMETAL). (2) SILVER COLORED METAL PIN (SILVERY METAL) . (3) BLACK PLASTIC BODY WITHOUT SOLDER WAFER & DIE (BLACK PLASTIC). : SMC PACKAGE FAMILY. ITEM NO. MATERIAL : METAL & RESIN. TESTS CONDUCTED: AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

MYRA LV CHEMICAL DIVISION MANAGER

AUTHORIZED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

STEPHEN TSANG GENERAL MANAGER



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TESTS CONDUCTED

(A) TEST RESULT SUMMARY FOR ROHS DIRECTIVE:

TESTING ITEM	RESULT (ppm)	
	(1)	
CADMIUM (Cd) CONTENT (ppm)	ND (<2)	
LEAD (Pb) CONTENT (ppm)	5030	
MERCURY (Hg) CONTENT (ppm)	ND (<2)	
CHROMIUM VI (Cr ⁶⁺) CONTENT (ppm) (FOR NON- METAL)	ND (<1)	
POLYBROMINATED BIPHENYLS (PBBs)		
MONOBROMOBIPHENYL (MonoBB) (ppm)	ND	
DIBROMOBIPHENYL (DiBB) (ppm)	ND	
TRIBROMOBIPHENYL (TriBB) (ppm)	ND	
TETRABROMOBIPHENYL (TetraBB) (ppm)	ND	
PENTABROMOBIPHENYL (PentaBB) (ppm)	ND	
HEXABROMOBIPHENYL (HexaBB) (ppm)	ND	
HEPTABROMOBIPHENYL (HeptaBB) (ppm)	ND	
OCTABROMOBIPHENYL (OctaBB) (ppm)	ND	
NONABROMOBIPHENYL (NonaBB) (ppm)	ND	
DECABROMOBIPHENYL (DecaBB) (ppm)	ND	
POLYBROMINATED DIPHENYL ETHERS (PBDEs)		
MONOBROMODIPHENYL ETHER (MonoBDE) (ppm)	ND	
DIBROMODIPHENYL ETHER (DiBDE) (ppm)	ND	
TRIBROMODIPHENYL ETHER (TriBDE) (ppm)	ND	
TETRABROMODIPHENYL ETHER (TetraBDE) (ppm)	ND	
PENTABROMODIPHENYL ETHER (PentaBDE) (ppm)	ND	
HEXABROMODIPHENYL ETHER (HexaBDE) (ppm)	ND	
HEPTABROMODIPHENYL ETHER (HeptaBDE) (ppm)	ND	
OCTABROMODIPHENYL ETHER (OctaBDE) (ppm)	ND	
NONABROMODIPHENYL ETHER (NonaBDE) (ppm)	ND	
DECABROMODIPHENYL ETHER (DecaBDE) (ppm)	ND	



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TESTING ITEM	ITEM RESULT (ppm)	
	(2)	
CADMIUM (Cd) CONTENT (ppm)	ND (<2)	
LEAD (Pb) CONTENT (ppm)	ND (<2)	
MERCURY (Hg) CONTENT (ppm)	ND (<2)	
CHROMIUM (VI) (Cr ⁶⁺) RESULT (FOR METAL)	N	

TESTING ITEM	RESULT (ppm)	
	(3)	
LEAD (Pb) CONTENT (ppm)	ND (<2)	

REMARKS:

ppm = PARTS PER MILLION = mg/kg
< = LESS THAN</pre>

ND = NOT DETECTED

N = NEGATIVE

THE SUBMITTED SAMPLE (1) WAS NOT HOMOGENEOUS MATERIAL AND SAMPLING RANDOMLY.

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

(B) ROHS REQUIREMENT

RESTRICTED SUBSTANCES	LIMITS	
CADMIUM (Cd)	0.01% (100 ppm)	
LEAD (Pb)	0.1% (1000 ppm)	
MERCURY (Hg)	0.1% (1000 ppm)	
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)	
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)	
POLYBROMINATED DIPHENYL EHTERS (PBDEs)	0.1% (1000 ppm)	

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.



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(C) TEST METHOD :

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV- VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)
POLYBROMINATED BIPHENYLS (PBBs)& POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS/HPLC	5 ppm

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

REPORTING LIMIT=QUANTIZATION LIMIT OF ANALYZE IN SAMPLE



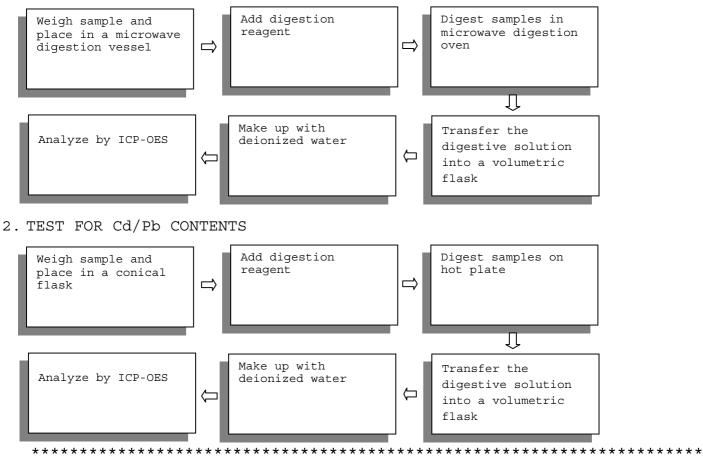
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MEASUREMENT FLOWCHART (IEC 62321)

1. TEST FOR Cd/Pb/Hg CONTENTS



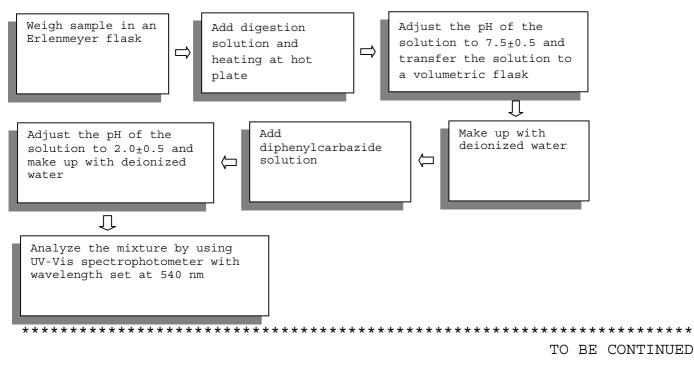


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3. TEST FOR CHROMIUM (VI) CONTENT



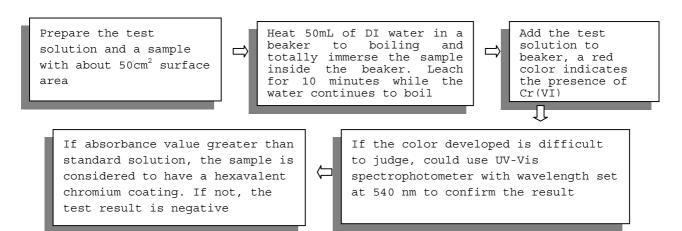


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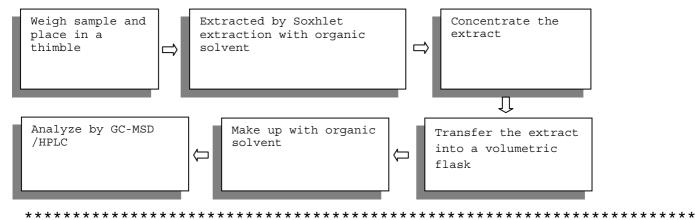
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4. TEST FOR CHROMIUM (VI) CONTENT (BOILING WATER EXTRACTION ON METAL)



5. TEST FOR PBBs/PBDEs CONTENTS

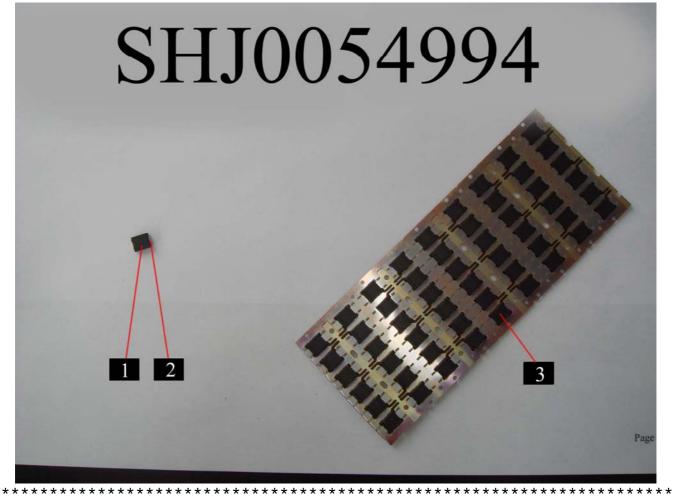




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