



Test Report

SONG LONG ELECTRONICS CO.,LTD.
NO.450, CHUNG CHENG 3RD RD., YING KO CHIN,
TAIPEI HSIEN, TAIWAN

Report No : CE/2004/42419
Date : 2004/05/06
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The following merchandise was(were) submitted and identified by the client as :

Type of Product : VARISTOR
Sample Received : 2004/04/22.
Testing Date : 2004/04/22 TO 2004/05/06

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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 : MIX BLUE CERAMIC BODY & SILVER COLORED METAL PIN

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Asbestos		With reference to Health Canada, Proudct safety Bureau Reference-Manual method.						
Anthrophyllite	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Crocodolite	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Amosite	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Tremolite	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Chrysotile	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				
Actinolite	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
AZO		As per LMBG 8202-2						
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.				

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Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2-AMINO-4- NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4- DIAMINODIPHENYLMET HANE (CAS NO.101-77- 9)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3- DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3- DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3- DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMET HANE (CAS NO.838-88- 0)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-CRESIDINE(2- METHOXY-5- METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				

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				NO.1				
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-TOLUIDINE (CAS NO.95-53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4,5- TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-ANISIDINE (CAS NO.90-04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.				
Formaldehyde(CAS No:000050-00-0)	ppm	With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	N.D.				
Mirex(CAS NO:002385- 85-5)	ppm	Analysis was performed by GC/MS.	4	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Organic-tin compounds								
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.001	N.D.				
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.001	N.D.				
PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7)	%	With reference to 83/264/EEC. Analysis was performed by GC/MS/ECD or HPLC/DAD/MS.	0.0005	N.D.				

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				NO.1				
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to 83/264/EEC. Analysis was performed by GC/MS/ECD or HPLC/DAD/MS.	0.0005	N.D.				
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.				
Polychlorinated Naphthalene	ppm	Analysis was performed by GC/MS.	5	N.D.				
PVC free(CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR AND Pyro-GC/MS.	-	Negative				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES After As per EN 1122, Method B:2001 or other acid digestion.	2	N.D.				
Cobalt (Co)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	4072.2				
Mercury (Hg)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.				
Manganese (Mn)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	3271.7				
Nickel (Ni)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	3120.1				
Lead (Pb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	19.2				

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Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Antimony (Sb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	21001.0				
Zinc (Zn)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	460016.0				

- NOTE : (1) N.D. = Not detected.(<MDL)
(2) ppm = mg/kg
(3) MDL= Method Detection Limit
(4) " ---" = Not Applicable
(5) " -" = Not Regulation
(6) * = Results shown are of the adjusted analytical results.
(7) **= Qualitative analysis(No Unit)
(8) Negative = Undetectable / Positive = Detectable.