



Materials Declaration

Package	BGA
Body Size	14 X 22
Ball Count	119
Option	SnPb
Ball Size	0.76 mm

Molding Compound			
Item	% of Compound	Weight (g)	PPM
SiO2 Filler	76.7	2.32 E-01	308452
Multifunctional Resin	20.8	6.54 E-02	87027
Sb2O3	1.5	4.50 E-03	5988
Brominated Compound	1.0	3.00 E-03	3992

Laminate			
Item	% of Laminate	Weight (g)	PPM
BT-Epoxy	57.6	1.27 E-01	168731
Solder Mask	17.5	3.85 E-02	51231
Copper	16.2	3.56 E-02	47372
Nickel	4.0	8.80 E-03	11710
Brominated Compound	4.0	8.70 E-03	11577
Gold	0.8	1.70 E-03	2262

Solder Ball			
Item	% of Solder Ball	Weight (g)	PPM
Sn	63.0	9.38 E-02	124818
Pb	37.0	5.51 E-02	73321

Bond Wires			
Item	% of Wire	Weight (g)	PPM
Au	99.99	7.66 E-03	10188

Chip			
Item	% of Chip	Weight (g)	PPM
Si	100.0	6.12 E-02	81488

Die Attach			
Item	% of Die Attach	Weight (g)	PPM
Ag Filler	75.0	6.70 E-03	8916
Resin	25.0	2.20 E-03	2928

Molding Compound		
Item	PPM	Method
Pb	Not Detected	EPA 3050B. ICP-AES
Cd	Not Detected	BS EN1122B. ICP-AES
Hg	Not Detected	EPA 3052B. ICP-AES
Cr+6	Not Detected	EPA 3060A & EPA 7196A.UV
PBB	Not Detected	Analysis was performed by GC/MS
PBDE	Not Detected	Analysis was performed by GC/MS

Die Attach Paste		
Item	PPM	Method
Pb	Not Detected	US EPA Method 3052. ICP-OES
Cd	Not Detected	US EPA Method 3052. ICP-OES
Hg	Not Detected	US EPA Method 3052. ICP-OES
Cr+6	Not Detected	US EPA Method 3060A & 7196A. UV-VIS
PBB	Not Detected	Analysis was performed by GC/MS
PBDE	Not Detected	Analysis was performed by GC/MS

Laminate		
Item	PPM	Method
Pb	Not Detected	US EPA 3052. ICP-OES.
Cd	Not Detected	US EPA 3052. ICP-OES.
Hg	Not Detected	US EPA 3052. ICP-OES.
Cr+6	Not Detected	US EPA 3060A & 7196A. UV-VIS.
PBB	Not Detected	Analysis was performed by GC/MS
PBDE	Not Detected	Analysis was performed by GC/MS

Package Totals	
Weight (g)	PPM
7.51 E-01	1000000

Note: The information provided in this declaration are true to the best of ADI's knowledge. ADI derived most of the information listed in this declaration from documents provided by third parties, and assumes no liability to any inaccuracy of such information.



ADI Proprietary

9/6/06

