

## Materials Declaration

<b>Package</b>	BGA
<b>Body Size</b>	27 X 27
<b>Ball Count</b>	676
<b>Option</b>	SnAgCu
<b>Ball Size</b>	0.60 mm

Molding Compound			
Item	% of Compound	Weight (g)	PPM
SiO2 Filler	86.2	1.20 E+00	390798
Epoxy resin	6.0	8.38 E-02	27202
Phenol Resin	6.0	8.38 E-02	27202
Metal Hydroxide	1.5	2.09 E-02	6800
Carbon Black	0.3	4.19 E-03	1360
Subtotal		1.40 E+00	453362

Laminate			
Item	% of Laminate	Weight (g)	PPM
BT resin	27.0	2.88 E-01	93454
Glass fiber	25.0	2.66 E-01	86531
Cu	18.0	1.92 E-01	62302
Ni	11.0	1.17 E-01	38074
Soldermask	11.0	1.17 E-01	38074
Au	8.0	8.53 E-02	27690
Subtotal		1.07 E+00	346125

Solder Ball			
Item	% of Solder Ball	Weight (g)	PPM
Sn	96.5	5.46 E-01	177348
Ag	3	1.70 E-02	5514
Cu	0.5	2.83 E-03	919
Subtotal		5.66 E-01	183781

Bond Wires			
Item	% of Wire	Weight (g)	PPM
Au	99.99	6.69 E-03	2173

Chip			
Item	% of Chip	Weight (g)	PPM
Si	100	3.82 E-02	12397

Die Attach			
Item	% of Die Attach	Weight (g)	PPM
Silver	66.11	4.40 E-03	1429
Polymeric material	16.53	1.10 E-03	358
Acrylate resin	6.2	4.13 E-04	134
Diester resin	6.2	4.13 E-04	134
Functionalized urethane resin	2.48	1.65 E-04	54
Epoxy resin	2.48	1.65 E-04	54
Subtotal		6.66 E-03	2162

Package Totals	
Weight (g)	PPM
<b>3.08 E+00</b>	1000000

Molding Compound		
Item	PPM	Method
Pb	Not Detected	EPA 3051/3052. ICP-OES
Cd	Not Detected	EPA 3051/3052. ICP-OES
Hg	Not Detected	EPA 3051/3052. ICP-OES
Cr+6	Not Detected	EPA 3060A & EPA 7196A. UV-VIS
PBB	Not Detected	EPA 3540C/3550C. GC/MS
PBDE	Not Detected	EPA 3540C/3550C. GC/MS

Die Attach Paste		
Item	PPM	Method
Pb	Not Detected	EPA 3051/3052. ICP-OES
Cd	Not Detected	EPA 3051/3052. ICP-OES
Hg	Not Detected	EPA 3051/3052. ICP-OES
Cr+6	Not Detected	EPA 3060A & EPA 7196A. UV-VIS
PBB	Not Detected	EPA 3540C/3550C. GC/MS
PBDE	Not Detected	EPA 3540C/3550C. GC/MS

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.



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