



Materials Declaration

Package	CSP BGA
Body Size	8 X 8
Ball Count	112
Option	SnAgCu
Ball Size	0.40 mm

Molding Compound			
Item	% of Compound	Weight (g)	PPM
SiO2 Filler	86.2	6.05 E-02	377737
Epoxy resin	6.0	4.21 E-03	26291
Phenol Resin	6.0	4.21 E-03	26291
Metal Hydroxide	1.5	1.05 E-03	6576
Carbon Black	0.3	2.11 E-04	1318
Subtotal		7.02 E-02	438213

Laminate			
Item	% of Laminate	Weight (g)	PPM
BT Resin	25.0	1.26 E-02	78773
Glass Fiber	25.0	1.26 E-02	78773
Copper	19.0	9.59 E-03	59870
Solder Mask	12.2	6.16 E-03	38444
Nickel	11.0	5.55 E-03	34659
Gold	7.8	3.94 E-03	24580
Subtotal		5.05 E-02	315100

Solder Ball			
Item	% of Solder Ball	Weight (g)	PPM
Sn	96.5	2.68 E-02	167445
Ag	3	8.34 E-04	5208
Cu	0.5	1.39 E-04	868
Subtotal		2.78 E-02	173522

Bond Wires			
Item	% of Wire	Weight (g)	PPM
Au	99.99	2.57 E-03	16049

Chip			
Item	% of Chip	Weight (g)	PPM
Si	100	8.21 E-03	51240

Die Attach			
Item	% of Die Attach	Weight (g)	PPM
Silver	66.11	6.23 E-04	3891
Polymeric material	16.53	1.56 E-04	974
Acrylate resin	6.2	5.80 E-05	362
Diester resin	6.2	5.80 E-05	362
Functionalized urethane resin	2.48	2.30 E-05	144
Epoxy resin	2.48	2.30 E-05	144
Subtotal		9.41 E-04	5876

Package Totals	
Weight (g)	PPM
1.60 E-01	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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