

Materials Declaration

Package	CSP BGA
Body Size	6 X 6
Ball Count	64
Option	SnAgCu
Ball Size	0.40 mm

Molding Compound

Item	% of Compound	Weight (g)	PPM
SiO2 Filler	86.2	3.40 E-02	359950
Epoxy resin	6.0	2.37 E-03	25054
Phenol Resin	6.0	2.37 E-03	25054
Metal Hydroxide	1.5	5.92 E-04	6263
Carbon Black	0.3	1.18 E-04	1248
Subtotal		3.95 E-02	417570

Molding Compound

Item	PPM	Method
Pb	Not Detected	Draft IEC 62321. ICP-OES
Cd	Not Detected	Draft IEC 62321. ICP-OES
Hg	Not Detected	Draft IEC 62321. ICP-OES
Cr+6	Not Detected	Draft IEC 62321. UV-VIS.
PBB	Not Detected	Draft IEC 62321. GC-MSD.
PBDE	Not Detected	Draft IEC 62321. GC-MSD.

Laminate

Item	% of Laminate	Weight (g)	PPM
BT Resin	25.0	7.48 E-03	79119
Glass Fiber	25.0	7.48 E-03	79119
Copper	19.0	5.68 E-03	60127
Solder Mask	12.2	3.65 E-03	38607
Nickel	11.0	3.29 E-03	34809
Gold	7.8	2.33 E-03	24684
Subtotal		2.99 E-02	316465

Die Attach Paste

Item	PPM	Method
Pb	Not Detected	Draft IEC 62321. ICP-OES
Cd	Not Detected	Draft IEC 62321. ICP-OES
Hg	Not Detected	Draft IEC 62321. ICP-OES
Cr+6	Not Detected	Draft IEC 62321. UV-VIS.
PBB	Not Detected	Draft IEC 62321. GC-MSD.
PBDE	Not Detected	Draft IEC 62321. GC-MSD.

Solder Ball

Item	% of Solder Ball	Weight (g)	PPM
Sn	96.5	1.53 E-02	162100
Ag	3	4.76 E-04	5036
Cu	0.5	7.90 E-05	836
Subtotal		1.59 E-02	167972

Bond Wires

Item	% of Wire	Weight (g)	PPM
Au	99.99	5.27 E-04	5576

Chip

Item	% of Chip	Weight (g)	PPM
Si	100	7.84 E-03	82896

Die Attach

Item	% of Die Attach	Weight (g)	PPM
Silver	66.11	5.95 E-04	6295
Polymeric material	16.53	1.49 E-04	1576
Acrylate resin	6.2	5.60 E-05	592
Diester resin	6.2	5.60 E-05	592
Functionalized urethane resin	2.48	2.20 E-05	233
Epoxy resin	2.48	2.20 E-05	233
Subtotal		9.00 E-04	9522

Package Totals

Weight (g)	PPM
9.45 E-02	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