



Materials Declaration

Package	CSP BGA
Body Size	10 X 10
Ball Count	108
Option	SnPbAg
Ball Size	0.45

Molding Compound				
Item	% of Compound	Weight (g)	PPM	
Epoxy resin	13.7	1.12 E-02	52569	
SiO2 Filler	85	6.96 E-02	326159	
Sb2O3	1	8.19 E-04	3837	
Carbon Black	0.3	2.46 E-04	1151	

Molding Compound			
Item	PPM	Method	
Pb	<10	ICP-AES	
Cd	<5	ICP-AES	
Hg	<10	ICP-AES	
Cr+6	<10	ICP-AES	

Laminate				
Item	% of Laminate	Weight (g)	PPM	
BT Resin	46	3.48 E-02	163039	
Copper (Cu)	33.406	2.55 E-02	119495	
Main agent	7.11	5.43 E-03	25433	
Hardener	3.049	2.33 E-03	10906	
Copper (Cu)	0.672	5.13 E-04	2404	
Nickel (Ni)	7.445	5.69 E-03	26631	
Gold (Au)	1.742	1.33 E-03	6231	

Solder Ball				
	% of Solder Ball	Weight (g)	PPM	
Sn	62	3.06 E-02	143415	
Pb	36	1.78 E-02	83273	
Ag	2	9.88 E-04	4626	

Bond Wires				
	% of Wire	Weight (g)	PPM	
Au	99.99	1.14 E-03	5318	

Chip				
	% of Chip	Weight (g)	PPM	
Si	100	5.12 E-03	23982	

Die Attach				
Item	% of Die Attach	Weight (g)	PPM	
Ag Filler	80	2.61 E-04	1222	
Resin	20	6.53 E-05	306	

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

AST-BC-B

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

2/2/05

