



Materials Declaration

Package	Mini BGA
Body Size	9 X 9
Ball Count	148
Option	Pb-Free

Molding Compound

Item	% of Compound	Weight (g)	PPM
Epoxy resin	7	6.59 E-03	32249
SiO2 Filler	85	8.00 E-02	391597
Phenol Resin	6.5	6.12 E-03	29946
Carbon Black	0.5	4.70 E-04	2304
Metal Hydroxide	1	9.41 E-04	4607

Molding Compound

Item	PPM	Method
Pb	<2.0	EPA method #3052 (ICPAES)
Cd	<2.0	BS EN 1122:2001B (ICPaes)
Hg	<2.0	Mercury Analyser
Cr+6	<2.0	EPA method #3060A(UV)

Laminate

Item	% of Laminate	Weight (g)	PPM
BT-Epoxy	28	1.73 E-02	84632
Glass Fiber	25	1.54 E-02	75564
Copper	19	1.17 E-02	57429
Gold	11	6.79 E-03	33248
Nickel	7.8	4.82 E-03	23576
Solder Mask	9.35	5.77 E-03	28261
Brominated Compound	Confidential Not Determined		

Die Attach Paste

Item	PPM	Method
Pb	<5.0	ICP-AES
Cd	<5.0	ICP-AES
Hg	<5.0	ICP-AES
Cr+6	<5.0	ICP-AES

Solder Ball

	% of Plating	Weight (g)	PPM
Sn	96.5	1.70 E-02	83076
Ag	3	5.27 E-04	2583
Cu	0.5	8.79 E-05	430

Bond Wires

	% of Wire	Weight (g)	PPM
Au	99.99	1.74 E-03	8504

Chip

	% of Chip	Weight (g)	PPM
Si	100	1.41 E-02	68941

Die Attach

Item	% of Die Attach	Weight (g)	PPM
Resin	24	3.58 E-03	17533
Ag Filler	76	1.13 E-02	55521

Package Totals

Weight (g)	PPM
2.04 E-01	1000000

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Note: The information provided in this declaration are true to the best of ADI's knowledge
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 any inaccuracy of such information.



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Package	Mini BGA
Body Size	9 X 9
Ball Count	148
Option	SnPbAg

Molding Compound				
Item	% of Compound	Weight (g)	PPM	
Silica	90	8.29 E-02	459218	
Epoxy resin	4.8	4.42 E-03	24492	
Phenol resin	3.91	3.60 E-03	19950	
Antimony trioxide	0.69	6.36 E-04	3521	
Bromine	0.6	5.53 E-04	3061	

Molding Compound		
Item	PPM	Method
Cd	<5	BS EN 1122:2001B (ICPaes)

Laminate				
Item	% of Laminate	Weight (g)	PPM	
BT-Epoxy	28	1.73 E-02	95748	
Glass Fiber	25	1.54 E-02	85489	
Copper	19	1.17 E-02	64972	
Gold	11	6.79 E-03	37615	
Nickel	7.8	4.82 E-03	26673	
Solder Mask	9.35	5.77 E-03	31973	
Brominated Compound	Confidential		Not Determined	

Die Attach Paste			
Item	PPM	Method	
Pb	<5.0	ICP-AES	
Cd	<5.0	ICP-AES	
Hg	<5.0	ICP-AES	
Cr+6	<5.0	ICP-AES	

Solder Ball				
	% of Plating	Weight (g)	PPM	
Sn	62	1.09 E-02	60386	
Pb	36	6.33 E-03	35063	
Ag	2	3.52 E-04	1948	

Bond Wires				
	% of Wire	Weight (g)	PPM	
Au	99.99	1.74 E-03	9621	

Chip				
	% of Chip	Weight (g)	PPM	
Si	100	6.34 E-03	35098	

Die Attach				
Item	% of Die Attach	Weight (g)	PPM	
Resin	23	2.15 E-04	1189	
Ag Filler	77	7.19 E-04	3981	

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

STS-BC-D

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