



Materials Declaration

Package	TQFP - EP
Body Size	12 X 12
LeadCount	80
Option	Pb-Free

Molding Compound			
Item	% of Compound	Weight (g)	PPM
SiO2 Filler	88	2.11 E-01	566661
Multi-aromatic Resin	11.5	2.75 E-02	72746
Carbon Black	0.5	1.20 E-03	3163
Subtotal		2.39 E-01	632570

Leadframe			
Item	% of Leadframe	Weight (g)	PPM
Cu	99.25	1.07 E-01	282236
Cr	0.3	3.23 E-04	854
Sn	0.25	2.69 E-04	711
Zn	0.2	2.15 E-04	568
Subtotal		1.08 E-01	284369

Internal Leadframe Plating			
Item	% of Plating	Weight (g)	PPM
Ag	100	9.60 E-04	2537

External Leadframe Plating			
Item	% of Plating	Weight (g)	PPM
Sn	100	7.37 E-03	19474

Bond Wires			
Item	% of Wire	Weight (g)	PPM
Au	99.99	1.66 E-03	4395

Chip			
Item	% of Chip	Weight (g)	PPM
Si	100	1.74 E-02	46094

Die Attach			
Item	% of Die Attach	Weight (g)	PPM
Ag Filler	70	2.80 E-03	7392
Resin	20	7.99 E-04	2112
Anhydride	10	4.00 E-04	1057
Subtotal		4.00 E-03	10560

Molding Compound			
Item	PPM		Method
Pb	None Detected	USEPA 3050B.	ICP-AES.
Cd	None Detected	EN 1122:2001.	ICP-AES
Hg	None Detected	USEPA 3052.	ICP-AES
Cr+6	None Detected	USEPA 3060A & 7196A.	
PBB	None Detected	USEPA 3540C or 3550C.	Analysis by HPLC/DAD, LC/MS or GC/MS.
PBDE	None Detected	USEPA 3540C or 3550C.	Analysis by HPLC/DAD, LC/MS or GC/MS.

Die Attach Paste			
Item	PPM		Method
Pb	None Detected	USEPA 3052.	ICP-OES
Cd	None Detected	USEPA 3052.	ICP-OES
Hg	None Detected	USEPA 3052.	ICP-OES
Cr+6	None Detected	USEPA 3060A & 7196A.	UV-VIS.
PBB	None Detected	Analysis was performed by	GC/MS.
PBDE	None Detected	Analysis was performed by	GC/MS.

Package Totals	
Weight (g)	PPM
3.78 E-01	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



Materials Declaration

Package	TQFP - EP
Body Size	12 X 12
LeadCount	80
Option	SnPb

Molding Compound			
Item	% of Compound	Weight (g)	PPM
SiO2 Filler	88	2.08 E-01	546110
Multi-aromatic Resin	11.5	2.71 E-02	71367
Carbon Black	0.5	1.18 E-03	3103
		2.36 E-01	620580

Leadframe			
Item	% of Leadframe	Weight (g)	PPM
Cu	99.25	1.07 E-01	280823
Cr	0.3	3.23 E-04	849
Sn	0.25	2.69 E-04	707
Zn	0.2	2.15 E-04	565
		1.08 E-01	282945

Internal Leadframe Plating			
Item	% of Plating	Weight (g)	PPM
Ag	100	9.60 E-04	2524

External Leadframe Plating			
Item	% of Plating	Weight (g)	PPM
Sn	85	6.78 E-03	17825
Pb	15	1.20 E-03	3145
		7.98 E-03	20970

Bond Wires			
Item	% of Wire	Weight (g)	PPM
Au	99.99	1.66 E-03	4373

Chip			
Item	% of Chip	Weight (g)	PPM
Si	100	2.16 E-02	56723

Die Attach			
Item	% of Die Attach	Weight (g)	PPM
Ag Filler	70	3.16 E-03	8320
Resin	20	9.04 E-04	2377
Anhydride	10	4.52 E-04	1189
		4.52 E-03	11885

Molding Compound			
Item	PPM	Method	
Pb	None Detected	USEPA 3050B. ICP-AES.	
Cd	None Detected	EN 1122:2001. ICP-AES	
Hg	None Detected	USEPA 3052. ICP-AES	
Cr+6	None Detected	USEPA 3060A & 7196A.	
PBB	None Detected	USEPA 3540C or 3550C. Analysis by HPLC/DAD, LC/MS or GC/MS.	
PBDE	None Detected	USEPA 3540C or 3550C. Analysis by HPLC/DAD, LC/MS or GC/MS.	

Die Attach Paste			
Item	PPM	Method	
Pb	None Detected	USEPA 3052. ICP-OES	
Cd	None Detected	USEPA 3052. ICP-OES	
Hg	None Detected	USEPA 3052. ICP-OES	
Cr+6	None Detected	USEPA 3060A & 7196A. UV-VIS.	
PBB	None Detected	Analysis was performed by GC/MS.	
PBDE	None Detected	Analysis was performed by GC/MS.	

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

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