



**Materials Declaration**

<b>Package</b>	LQFP
<b>Body Size</b>	24 X 24 X 1.4
<b>LeadCount</b>	176
<b>Option</b>	Pb-free, Halide-free

Molding Compound			
Substance	% of Compound	Weight (g)	PPM
Silica	86.91	1.29 E+00	652071
Epoxy and Phenol resin	12.78	1.90 E-01	95886
Carbon black	0.31	4.60 E-03	2326
Subtotal	100	1.48 E+00	750283

Leadframe			
Substance	% of Leadframe	Weight (g)	PPM
Copper	96.20	4.26 E-01	215420
Nickel	3.00	1.33 E-02	6718
Silicon	0.65	2.88 E-03	1456
Magnesium	0.15	6.64 E-04	336
Subtotal	100	4.43 E-01	223929

Internal Leadframe Plating			
Substance	% of Plating	Weight (g)	PPM
Silver	100	4.38 E-03	2218

External Leadframe Plating			
Substance	% of Plating	Weight (g)	PPM
Tin	100	1.79 E-02	9056

Bond Wires			
Substance	% of Wire	Weight (g)	PPM
Gold	99.99	4.37 E-03	2209

Chip			
Substance	% of Chip	Weight (g)	PPM
Doped Silicon	100	2.01 E-02	10183

Die Attach			
Substance	% of Die Attach	Weight (g)	PPM
Silver	72.4	3.04 E-03	1536
Epoxy compound	18.1	7.59 E-04	384
Anhydrides	6.8	2.85 E-04	144
Polymeric material	2.7	1.14 E-04	58
Subtotal	100.0	4.20 E-03	2122

Package Totals	
Weight (g)	PPM
<b>1.98 E+00</b>	1000000

Molding Compound		
Substance	PPM	Method
Lead	Not Detected	Draft IEC62321. ICP-OES.
Cadmium	Not Detected	Draft IEC62321. ICP-OES.
Mercury	Not Detected	Draft IEC62321. ICP-OES.
Chromium+6	Not Detected	Draft IEC62321. UV-VIS.
Polybrominated biphenyls (PBB)	Not Detected	Draft IEC62321. GC-MSD.
Polybrominated Diphenyl Ethers (PBDE)	Not Detected	Draft IEC62321. GC-MSD.

Die Attach Paste		
Substance	PPM	Method
Lead	Not Detected	Draft IEC62321. ICP-OES.
Cadmium	Not Detected	Draft IEC62321. ICP-OES.
Mercury	Not Detected	Draft IEC62321. ICP-OES.
Chromium+6	Not Detected	Draft IEC62321. UV-VIS.
Polybrominated biphenyls (PBB)	Not Detected	Draft IEC62321. GC-MSD.
Polybrominated Diphenyl Ethers (PBDE)	Not Detected	Draft IEC62321. GC-MSD.

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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Silicon	0.65	2.88 E-03	1456
Magnesium	0.15	6.64 E-04	336
Subtotal	100	4.43 E-01	223929

Internal Leadframe Plating			
Substance	% of Plating	Weight (g)	PPM
Silver	100	4.38 E-03	2218

External Leadframe Plating			
Substance	% of Plating	Weight (g)	PPM
Tin	85	1.52 E-02	7698
Lead	15	2.69 E-03	1358
Subtotal	100	1.79 E-02	9056

Bond Wires			
Substance	% of Wire	Weight (g)	PPM
Gold	99.99	4.37 E-03	2209

Chip			
Substance	% of Chip	Weight (g)	PPM
Doped Silicon	100	2.01 E-02	10183

Die Attach			
Substance	% of Die Attach	Weight (g)	PPM
Silver	72.4	3.04 E-03	1536
Epoxy compound	18.1	7.59 E-04	384
Anhydrides	6.79	2.85 E-04	144
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Polybrominated biphenyls (PBB)	Not Detected	Draft IEC62321. GC-MSD.
Polybrominated Diphenyl Ethers (PBDE)	Not Detected	Draft IEC62321. GC-MSD.

Die Attach Paste		
Substance	PPM	Method
Lead	Not Detected	Draft IEC62321. ICP-OES.
Cadmium	Not Detected	Draft IEC62321. ICP-OES.
Mercury	Not Detected	Draft IEC62321. ICP-OES.
Chromium+6	Not Detected	Draft IEC62321. UV-VIS.
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