

## **Device Material Content**

5555 NE Moore Ct.

Hillsboro OR 97124 Package: 100 PQFP with matte Sn Plating

 custreq@lscc.com
 Total Device Weight
 1.60
 Grams
 MSL: 3

 Peak Reflow Temp: 245°C

					reak Renow Temp. 243 C		
August, 2008	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	1.11%	0.018			Silicon chip	7440-21-3	Die size: 3.38 x 3.54 x 0.64 mm
Mold	84.38%	1.350	74.00% 5.91% 4.22% 0.25%	1.184 0.095 0.068 0.004	Silica Fused Epoxy Resin Phenol Resin Carbon black	60676-86-0 - - 1309-64-4	Mold Compound Density varies between 1.7 and 2.3 grams/cc 75 to 95% Silica Fused (LSC uses 87.7% in our calculation) 5 to 10% Epoxy Resin (LSC uses 7% in our calculation). 2 to 8% Phenol Resin (LSC uses 5% in our calculation). 0.1 to 0.5% Carbon black (LSC uses 0.3% in our calculation)
D/A Epoxy	0.08%	0.0012	0.061% 0.015%	0.001 0.0002	Silver-filled Epoxy Silver (Ag) other	7440-22-4	(silver content: 70-90%; LSC uses 80% in our calculation) Die attach epoxy Density: 4 grams/cc
Wire	0.18%	0.003			Gold (Au)	7440-57-5	1.0 mil wire diameter; 1 wire for each package lead; wire length 3 mm
Lead Plating	1.38%	0.022			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is 0.015mm
Leadframe	12.88%	0.206	12.39% 0.39% 0.08% 0.02%	0.198 0.0062 0.0013 0.0003	Copper (Cu) Nickel (Ni) Silicon (Si) Magnesium (Mg)	7440-50-8 7440-02-0 7440-21-3 7439-95-4	Leadframe thickness is nominal (per Case Outline) 96.2% Cu 3.0% Ni 0.65% Si 0.15% Mg

## Notes:

The values listed above are nominal values based on studies of representatives of this particular package type, and are believed to be as accurate as possible.

Constituent substances and proportions in epoxy materials are before curing.

The information provided above is representative of the package as of the date listed, and is subject to change at any time.

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