

Device Material Content

5555 NE Moore Ct. Hillsboro OR 97124		Package:	144 TOF	P (1.4mm)	with matte Sn Plating		
custreq@lscc.com	Tota	al Device Weight	1.40	Grams	···	MSL: 3	
		8					Peak Reflow Temp: 260°C
August, 2008	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS#	Notes / Assumptions:
Die	1.21%	0.017			Silicon chip	7440-21-3	Die size: 4.00 x 5.05 mm
Mold	79.42%	1.112	67.51% 3.97% 3.97% 0.79% 0.48% 2.70%	0.945 0.056 0.056 0.011 0.007 0.038	Silica Fused Epoxy Resin Phenol Resin Antimony Trioxide Carbon black Other (trade secret)	60676-86-0 - - 1309-64-4 1333-86-4	Mold Compound Density between 1.7 and 2.1 grams/cc 80 to 90% Silica Fused (LSC uses 85% in our calculation) 5 to 10% Epoxy Resin (LSC uses 5% in our calculation). 5 to 10% Phenol Resin (LSC uses 5% in our calculation). 0.1% to 1% Antimony Trioxide (LSC uses 1% in our calculation) 0.1 to 1% Carbon black (LSC uses 0.6% in our calculation) 1 to 4% Other (LSC uses 3.4% in our calculation)
D/A Epoxy	0.15%	0.0021	0.12% 0.03%	0.0016 0.0004	Silver filled epoxy Silver Esters & resins	7440-22-4	(silver content: 70-90%; LSC uses 80% in our calculation) Die attach epoxy Density: 4 grams/cc
Wire	0.21%	0.003			Gold (Au)	7440-57-5	0.8 to 1.0 mil diameter; 1 wire per package lead; wire length 3 mm
Lead Plating	0.79%	0.011			Tin (Sn)	7440-31-5	Plating is 100% Sn; thickness is 0.015mm
Leadframe	18.22%	0.255	17.77% 0.07% 0.02% 0.04% 0.04% 0.27% 0.02%	0.249 0.0010 0.0003 0.0005 0.0005 0.0038 0.0003	Copper (Cu) Silicon (Si) Zinc (Zn) Tin (Sn) Chromium (Cr) Nickel (Ni) Magnesium (Mg)	7440-50-8 7440-21-3 7440-66-6 7440-31-5 7440-47-3 7440-02-0 7439-95-4	Leadframe thickness is nominal (per Case Outline) Cu (LSC uses 97.5% in our calculation) 0 to 0.65% Si (LSC uses 0.4% in our calculation) 0 to 0.2% Zn (LSC uses 0.1% in our calculation) 0 to 0.25% Sn (LSC uses 0.2% in our calculation) 0 to 0.3% Cr (LSC uses 0.2% in our calculation) 0 to 0.3% Ni (LSC uses 1.5% in our calculation) 0 to 0.15% Mg (LSC uses 0.1% in our calculation)

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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Rev. E