



Material Declaration Sheet

- Device : ASFC10G31P3-51BIN
 - Package : 11.5 x 13.0 153ball FBGA eMMC
 - Weight (mg) : 306.6211mg

Material	Component wt (mg)	Purpose	Substances	CAS No.	Weight (mg)	wt % of Total unit wt	Element wt (%)	PPM	
Printed Circuit Board	89.6772	Au	Au Plating	7440-57-5	0.1806	0.0589%	0.2013%	589	
			Ni	Ni Plating	7440-02-0	1.4043	0.4580%	1.5659%	4580
			Cu	Cu Plating	7440-50-8	60.2458	19.6483%	67.1807%	196483
		Core	Solder Mask	Copper foil	7440-50-8	9.6540	3.1485%	10.7652%	31485
				E-glass fabric	65997-17-3	9.6540	3.1485%	10.7652%	31485
				Poly(acrylic acid)	Trade Secret	3.4871	1.1373%	3.8885%	11373
				Barium sulfate	7727-43-7	2.0954	0.6834%	2.3366%	6834
				3-Methoxy-3-methylbutyl Acetate	103429-90-9	1.0239	0.3339%	1.1418%	3339
				Dipropylene Glycol Monomethyl Ether	34590-94-8	0.8661	0.2825%	0.9658%	2825
				Talc	14807-96-6	0.2128	0.0694%	0.2373%	694
				Photopolymerization	Trade Secret	0.2128	0.0694%	0.2373%	694
				Solvent naphtha	64742-94-5	0.2128	0.0694%	0.2373%	694
				Auxiliaries	Trade Secret	0.2128	0.0694%	0.2373%	694
				Silicon dioxide	Trade Secret	0.0412	0.0134%	0.0460%	134
				Phthalocyanine blue	Trade Secret	0.0412	0.0134%	0.0460%	134
				Organic pigment	Trade Secret	0.1324	0.0432%	0.1477%	432
				Chip Capacitor	3.2000	Ceramics	Barium oxide, obtained by calcining witherite	1304-28-5	1.2780
Titanium dioxide	13463-67-7	0.6390	0.2044%				19.9688%	2084	
Misc	Trade Secret	0.2130	0.0695%				6.6563%	695	
Outer electrode	Copper	7440-50-8	0.3438			0.1121%	10.7438%	1121	
	Borosilicate Glass	-	0.0076			0.0025%	0.2388%	25	
Nickel plating	Silicon dioxide	7631-86-9	0.0306			0.0100%	0.9650%	100	
	Nickel	7440-02-0	0.0360			0.0117%	1.1250%	117	
	Inner electrode	Nickel	7440-02-0			0.5580	0.1820%	17.4375%	1820
Tin plating	Tin	7440-31-5	0.0940	0.0307%	2.9375%	307			
FLASH Die	17.5000	Silicon Die	Silicon	7440-21-3	17.5000	5.7074%	99.9999%	57074	
			Misc	-	0.0000	0.0000%	0.0001%	0	
FLASH Die Attach - DAF Tape	0.2000	Adhesive Resin	Acryl copolymer	Trade Secret	0.0857	0.0280%	42.8571%	280	
			Epoxy	29690-82-2	0.0286	0.0093%	14.2857%	93	
			Hardener	Trade Secret	0.0286	0.0093%	14.2857%	93	
			Silica	7631-86-9	0.0571	0.0186%	28.5714%	186	
Controller Die	2.6406	Silicon Die	Silicon	7440-21-3	2.6406	0.8612%	99.9999%	8612	
			Misc	-	0.0000	0.0000%	0.0000%	0	
Controller Die Attach - Adhesive	0.1000	Adhesive	EP	-	0.0490	0.0160%	48.9600%	160	
			Silanes, 1,1,1-Trimethyl-N-(trimethylsilyl)-, Hydrolyseprodukte mit Siliciumdioxid	68909-20-6	0.0340	0.0111%	34.0000%	111	
			Siliziumdioxid	7631-86-9	0.0170	0.0055%	17.0000%	55	
			Diisentrioxid	1309-37-1	0.0000	0.0000%	0.0300%	0	
			Calciumbis[4-[[[3-[[2-hydroxy-3-[[[4-methoxyphenyl]amino]carbonyl]-1-naphthyl]azo]-4-methylbenzoyl]amino]benzylsulfonat]	43035-18-3	0.0000	0.0000%	0.0050%	0	
			N-(2,3-Dihydro-2-oxo-1H-benzimidazol-5-yl)-3-hydroxy-4-[[[2-methoxy-5-methyl-4-[(methylamino)sulfonyl]phenyl]azo]naphthalin-2-carboxamid	51920-12-8	0.0000	0.0000%	0.0050%	0	
Bonding Wire	0.7072	Bonding wire	Gold	7440-57-5	0.7071	0.2306%	99.9900%	2306	
			Misc	-	0.0001	0.0000%	0.0100%	0	
Molding Compound	176.0000	Molding Compound	Silica (Fused)	60676-86-0	152.5920	49.7657%	86.7000%	497657	
			Epoxy resin (1)	7631-86-9	8.8000	2.8700%	5.0000%	28700	
			Epoxy resin (2)	-	4.4000	1.4350%	2.5000%	14350	
			Phenol resin (1)	-	5.2800	1.7220%	3.0000%	17220	
			Phenol resin (2)	-	4.4000	1.4350%	2.5000%	14350	
			Carbon black	1333-86-4	0.5280	0.1722%	0.3000%	1722	
			Solderpaste	0.6900	Solderpaste	Tin	7440-31-5	0.4720	0.1539%
Silver	7440-22-4	0.0236				0.0077%	4.0000%	77	
Rosin, oligomers	65997-05-9	0.0354				0.0115%	6.0000%	115	
2-(2-Hexyloxyethoxy)ethanol	112-59-4	0.0354				0.0115%	6.0000%	115	
Indium	7440-74-6	0.0212				0.0069%	3.6000%	69	
Bismut	7440-69-9	0.0024				0.0008%	0.4000%	8	
Solder Balls	16.0061	Solder Balls	Tin	7440-31-5	15.4299	5.0322%	96.4000%	50322	
			Silver	7440-22-4	0.4802	0.1566%	3.0000%	1566	
			Copper	7440-50-8	0.0960	0.0313%	0.6000%	313	
Total					306.6211	100.0000%		1000000	