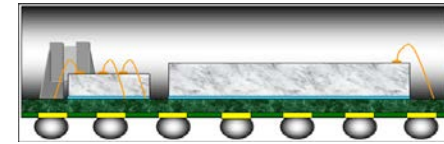




Material Declaration Sheet



- Device : ASFC8G31M-51BIN
 - Package : 11.5 x 13.0 F153 eMMC
 - Weight (mg) : 261.9mg

Material	Substances	Vendor	Type	Purpose	CAS No.	Weight (mg)	wt % of Total unit wt	Element (%)	PPM			
Silicon Chip 1	Silicon (Si)	SMI	SM2736 Controller	Circuit	-	1.720	0.66%	100.00%	6567			
Silicon Chip 2	Silicon (Si)	SEC	8GB Nand Flash	Circuit	-	51.430	19.64%	100.00%	196372			
Mold Compound	Silica, vitreous	EM Networks	LMC705VF	Filler	60676-86-0	106.466	40.65%	87.80%	406513			
	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethyl(1,1'-biphenyl)			Resin	85954-11-6	4.244	1.62%	3.50%	16205			
	Phenol polymer with 1,4-bis(methoxymethyl)benzene			Resin	26834-02-6	3.032	1.16%	2.50%	11575			
	Phenol polymer with 4,4'-bis(methoxymethyl)1,1'-bisphenyl			Resin	208830-20-2	2.910	1.11%	2.40%	11112			
	Formaldehyde polymer with (chloromethyl)oxirane and 2-methylphenol			Resin	29690-82-2	3.032	1.16%	2.50%	11575			
	Magnesium hydroxide			Hardener	1309-42-8	0.970	0.37%	0.80%	3704			
	Carbon black			Colorant	1333-86-4	0.606	0.23%	0.50%	2315			
							100.00%					
Substrate	Glass cloth	DDE	FBJS15304S 2H SU R.0	Base material, Core composition (CCL)	65997-17-3	7.100	2.71%	10.58%	27109			
	Copper			Base material, Core composition (CCL)	7440-50-8	11.900	4.54%	17.73%	45437			
	Epoxy			Base material, Core composition (CCL)	28906-96-9	0.900	0.34%	1.34%	3436			
	Heat Resistant Resin			Base material, Core composition (CCL)	25722-66-1	0.900	0.34%	1.34%	3436			
	Silica Filler			Base material, Core composition (CCL)	7631-86-9	1.500	0.57%	2.24%	5727			
	Resistant Epoxy Resin			Base material, Core composition (CCL)	223769-10-6	0.900	0.34%	1.34%	3436			
	Metal Hydroxide			Base material, Core composition (CCL)	1318-23-6	0.700	0.27%	1.04%	2673			
	Acrylate resin			Base material, Solder Mask composition (PSR4000-AUS308)	Trade Secret	7.000	2.67%	10.43%	26728			
	Organic pigments			Base material, Solder Mask composition (PSR4000-AUS308)	Trade Secret	0.100	0.04%	0.15%	382			
	Phthalocyanine blue			Base material, Solder Mask composition (PSR4000-AUS308)	Trade Secret	0.100	0.04%	0.15%	382			
	Talc (containing no asbestos fibers)			Base material, Solder Mask composition (PSR4000-AUS308)	14807-96-6	0.700	0.27%	1.04%	2673			
	Barium Sulfate			Base material, Solder Mask composition (PSR4000-AUS308)	7727-43-7	5.000	1.91%	7.45%	19091			
	Silica			Base material, Solder Mask composition (PSR4000-AUS308)	Trade Secret	0.100	0.04%	0.15%	382			
	2-Benzyl-2dimethylamino-1-(4-morpholinophenyl)-1-butanone			Base material, Solder Mask composition (PSR4000-AUS308)	119313-12-1	0.700	0.27%	1.04%	2673			
	Defoamers/leveling agent etc.			Base material, Solder Mask composition (PSR4000-AUS308)	Trade Secret	0.700	0.27%	1.04%	2673			
	Dipropylene glycol monomethyl ether			Base material, Solder Mask composition (PSR4000-AUS308)	34590-94-8	1.500	0.57%	2.24%	5727			
	3-methoxy-3-methylbutylacetate			Base material, Solder Mask composition (PSR4000-AUS308)	103429-90-9	2.900	1.11%	4.32%	11073			
	Heavy Aromatic Solvent naphtha			Base material, Solder Mask composition (PSR4000-AUS308)	64742-94-5	0.700	0.27%	1.04%	2673			
	Naphthalene			Base material, Solder Mask composition (PSR4000-AUS308)	91-20-3	0.100	0.04%	0.15%	382			
	Acrylic ester monomer			Base material, Solder Mask composition (CA40-AUS308)	Trade Secret	2.900	1.11%	4.32%	11073			
	Epoxy resin			Base material, Solder Mask composition (CA40-AUS308)	Trade Secret	9.000	3.44%	13.41%	34364			
	Organic filler			Base material, Solder Mask composition (CA40-AUS308)	Trade Secret	0.700	0.27%	1.04%	2673			
	Barium Sulfate			Base material, Solder Mask composition (CA40-AUS308)	7727-43-7	5.400	2.06%	8.05%	20618			
	Dipropylene glycol monomethyl ether* 1-(2-methoxy-2-methylethoxy)-2-propanol			Base material, Solder Mask composition (CA40-AUS308)	34590-94-8	1.400	0.53%	2.09%	5346			
	3-methoxy-3-methylbutylacetate			Base material, Solder Mask composition (CA40-AUS308)	103429-90-9	0.700	0.27%	1.04%	2673			
	Nickel			Surface treatment	7440-02-0	2.800	1.07%	4.17%	10691			
	Gold Potassium Cyanide			Surface treatment	13967-50-5	0.700	0.27%	1.04%	2673			
										100.00%		
	Solder paste			tin	Alpha	WS693CPS	Soldering	7440-31-5	0.740	0.28%	87.00%	2824
				surfactant				-	0.026	0.01%	3.00%	97
				silver				7440-22-4	0.026	0.01%	3.00%	97
				Alkoxyated alcohol.				-	0.026	0.01%	3.00%	97
				Organic acid				-	0.026	0.01%	3.00%	97
2,2'-iminodiethanol		111-42-2	0.004	0.00%				0.50%	16			
surfactant		-	0.004	0.00%				0.50%	16			
							100.00%					
Capacitor	Barium titanate(IV)	TayoYuden	1uf/6.3V/X5R/C0603/0.3T	Principle component	12047-27-7	0.260	0.10%	81.25%	993			
	Nickel				7440-02-0	0.044	0.02%	13.75%	168			
	Copper				7440-50-8	0.008	0.00%	2.50%	31			
	Tin				7440-31-5	0.008	0.00%	2.50%	31			
											100.00%	
Die Attach Material (Tape 1)	Epoxy	INNOX	IDU5C0-20T	Adhesive materials for die to die, die to sub UV Cure type dicing tape	29690-82-2	0.024	0.01%	20.00%	92			
	Acrylate copolymer				Trade secret	0.024	0.01%	20.00%	92			
	Hardener				Trade secret	0.012	0.00%	10.00%	46			
	Silica				7631-86-9	0.060	0.02%	50.00%	229			
											100.00%	
Die Attach Material (Tape 2)	Epoxy	INNOX	IDU0B3L-20T	Adhesive materials for die to die, die to sub UV Cure type dicing tape	29690-82-2	0.530	0.20%	20.00%	2024			
	Acrylate copolymer				Trade secret	0.530	0.20%	20.00%	2024			
	Hardener				Trade secret	0.265	0.10%	10.00%	1012			
	Silica				7631-86-9	1.325	0.51%	50.00%	5059			
											100.00%	
Wire	Gold	LT Metal	HP 0.8mil	Balance Material	7440-57-5	0.386	0.15%	99.99%	1474			
	Others				Trade secret	0.000	0.00%	0.01%	0.1			
							100.00%					
Solder Ball	Tin	DSH	0.3mm (Sn/3.0Ag/0.5Cu)	Remain	7440-31-5	15.503	5.92%	96.50%	59193			
	Silver				Conductivity Improvement	7440-22-4	0.482	0.18%	3.00%	1840		
	Copper				Heat resistance improvement	7440-50-8	0.080	0.03%	0.50%	307		
							100.00%					
Total						261.90	100.0%		1000000.0			