



## Material Content Data Sheet



<b>Sales Product Name</b>		SAK-TC1797-512F180EF AC			<b>Issued</b>		13. August 2019		
<b>MA#</b>		MA001248234							
<b>Package</b>		P-BGA-416-27			<b>Weight*</b>		3227.93 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	inorganic material	silicon	7440-21-3	54.869	1.70	1.70	16998	16998	
wire	non noble metal	copper	7440-50-8	4.217	0.13	0.13	1307	1307	
encapsulation	organic material	carbon black	1333-86-4	2.380	0.07		737		
	plastics	epoxy resin	-	146.346	4.53		45337		
substrate	inorganic material	silicondioxide	60676-86-0	1041.077	32.24	36.84	322522	368596	
	plastics	epoxy resin	-	22.546	0.70		6985		
	inorganic material	bariumsulfate	7727-43-7	34.597	1.07		10718		
	plastics	acrylic resin	-	40.039	1.24		12404		
	plastics	bismaleimide triazine resin	-	122.239	3.79		37869		
plating	inorganic material	aluminiumhydroxide	21645-51-2	134.463	4.17		41656		
	inorganic material	glass fibre	-	232.255	7.20		71952		
	non noble metal	copper	7440-50-8	961.301	29.78	47.95	297807	479391	
solderball	noble metal	gold	7440-57-5	2.345	0.07		727		
	non noble metal	nickel	7440-02-0	6.419	0.20	0.27	1989	2716	
glue	non noble metal	lead	7439-92-1	153.661	4.76		47603		
	non noble metal	tin	7440-31-5	261.638	8.11	12.87	81054	128657	
*deviation	plastics	epoxy resin	-	1.884	0.06		584		
	noble metal	silver	7440-22-4	5.652	0.18	0.24	1751	2335	
						Sum in total:	100.00	1000000	

### Important Remarks:

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