



## Material Content Data Sheet



<b>Sales Product Name</b>				SAK-TC1793F-512F270EF AB		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001415354					
<b>Package</b>				PG-BGA-416-24		<b>Weight*</b>		3274.71 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	30.163	0.92	0.92	9211	9211	
wire	non noble metal	copper	7440-50-8	0.032	0.00	0.00	10	10	
encapsulation	organic material	carbon black	1333-86-4	2.726	0.08		833		
	inorganic material	silicondioxide	60676-86-0	167.662	5.12		51199		
substrate	plastics	epoxy resin	-	1192.716	36.41	41.61	364220	416252	
	inorganic material	bariumsulfate	7727-43-7	24.601	0.75		7512		
	inorganic material	Metal Hydroxide	-	26.477	0.81		8085		
	plastics	acrylic resin	-	28.470	0.87		8694		
	inorganic material	silicondioxide	60676-86-0	83.843	2.56		25603		
	plastics	epoxy resin	-	161.654	4.94		49364		
	inorganic material	glass fibre	-	185.337	5.66		56596		
	non noble metal	copper	7440-50-8	1049.462	32.05	47.64	320475	476329	
plating	non noble metal	nickel	7440-02-0	0.731	0.02		223		
	noble metal	gold	7440-57-5	0.267	0.01	0.03	82	305	
solderball	non noble metal	copper	7440-50-8	1.578	0.05		482		
	noble metal	silver	7440-22-4	12.627	0.39		3856		
	non noble metal	tin	7440-31-5	301.471	9.21	9.65	92060	96398	
glue	plastics	epoxy resin	-	1.224	0.04		374		
	noble metal	silver	7440-22-4	3.671	0.11	0.15	1121	1495	
*deviation	< 10%		Sum in total:			100.00		1000000	

### Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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