



Material Content Data Sheet



Sales Product Name	SAK-TC1797-512F180EF AC			Issued		8. September 2019		
MA#	MA001426600							
Package	PG-BGA-416-27			Weight*		3178.49 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	1.73	1.73	17263	17263
wire	non noble metal	copper	7440-50-8	4.217	0.13	0.13	1327	1327
encapsulation	organic material	carbon black	1333-86-4	2.380	0.07		749	
	plastics	epoxy resin	-	146.346	4.60		46042	
	inorganic material	silicondioxide	60676-86-0	1041.077	32.76	37.43	327538	374329
substrate	plastics	epoxy resin	-	22.546	0.71		7093	
	inorganic material	bariumsulfate	7727-43-7	34.597	1.09		10885	
	plastics	acrylic resin	-	40.039	1.26		12597	
	plastics	bismaleimide triazine resin	-	122.239	3.85		38458	
	inorganic material	aluminiumhydroxide	21645-51-2	134.463	4.23		42304	
	inorganic material	glass fibre	-	232.255	7.31		73071	
	non noble metal	copper	7440-50-8	961.301	30.24	48.69	302439	486847
plating	noble metal	gold	7440-57-5	2.345	0.07		738	
	non noble metal	nickel	7440-02-0	6.419	0.20	0.27	2020	2758
solderball	non noble metal	copper	7440-50-8	1.829	0.06		576	
	noble metal	silver	7440-22-4	14.634	0.46		4604	
	non noble metal	tin	7440-31-5	349.395	10.99	11.51	109925	115105
glue	plastics	epoxy resin	-	1.884	0.06		593	
	noble metal	silver	7440-22-4	5.652	0.18	0.24	1778	2371
*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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