

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	SAK-TC1793F-512F270EF AB	**Issued**	07. February 2022
MA#	MA001706342		
Package	PG-BGA-416-24	**Weight***	3284.17 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	31.142	0.95	0.95	9482	9482
wire	non noble metal	copper	7440-50-8	0.032			10	10
encapsulation	organic material	carbon black	1333-86-4	2.724	0.08		830	
	plastics	epoxy resin	-	167.545	5.10		51016	
	inorganic material	silicondioxide	60676-86-0	1,191.883	36.29	41.47	362918	414764
substrate	plastics	epoxy resin	-	16.185	0.49		4928	
	inorganic material	bariumsulfate	7727-43-7	24.836	0.76		7562	
	plastics	acrylic resin	-	28.742	0.88	2.13	8752	21242
plating	noble metal	gold	7440-57-5	2.578	0.08		785	
	non noble metal	nickel	7440-02-0	7.056	0.21	0.29	2149	2934
solderball	non noble metal	copper	7440-50-8	1.578	0.05		481	
	noble metal	silver	7440-22-4	12.627	0.38		3845	
	non noble metal	tin	7440-31-5	301.471	9.18	9.61	91795	96121
glue	plastics	epoxy resin	-	1.257	0.04		383	
	noble metal	silver	7440-22-4	3.772	0.11	0.15	1149	1532
substrate metal	non noble metal	copper	7440-50-8	1,049.462	31.96	31.96	319551	319551
substrate plastic	non noble metal	metal hydroxide	-	22.064	0.67		6718	
	inorganic material	amorphous silica	7631-86-9	44.128	1.34		13436	
	plastics	epoxy resin	-	66.192	2.02		20155	
	inorganic material	glass fibre wool	65997-17-3	88.256	2.69		26873	
	non noble metal	copper	7440-50-8	220.639	6.72	13.44	67182	134364
*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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