



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	BGT 60LTR11AIP E6327	<b>Issued</b>	12. August 2021
<b>MA#</b>	MA005342360		
<b>Package</b>	PG-UF2BGA-42-1	<b>Weight*</b>	15.32 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	0.848	5.53	5.53	55325	55325
underfill	organic material	carbon black	1333-86-4	0.004	0.03		251	
	plastics	epoxy resin	-	0.131	0.85		8517	
	inorganic material	silicondioxide	60676-86-0	0.250	1.63	2.51	16283	25051
bumps	noble metal	silver	7440-22-4	0.000			32	
	non noble metal	nickel	7440-02-0	0.005	0.03		315	
	non noble metal	tin	7440-31-5	0.024	0.16		1576	
	non noble metal	copper	7440-50-8	0.067	0.44	0.63	4383	6306
solderballs	non noble metal	nickel	7440-02-0	0.002	0.01		143	
	non noble metal	copper	7440-50-8	0.022	0.14		1426	
	noble metal	silver	7440-22-4	0.052	0.34		3422	
	non noble metal	tin	7440-31-5	4.294	28.04	28.53	280205	285196
ubm	non noble metal	tungsten	7440-33-7	0.000			3	
	non noble metal	titanium	7440-32-6	0.000			6	
	non noble metal	copper	7440-50-8	0.000			17	26
solder resists	inorganic material	magnesiumsilicate	1343-88-0	0.070	0.46		4556	
	plastics	epoxy resin	-	0.218	1.42		14237	
	inorganic material	silicondioxide	60676-86-0	0.227	1.48		14807	
	inorganic material	bariumsulfate	7727-43-7	0.358	2.33	5.69	23349	56949
substrate metal	non noble metal	copper	7440-50-8	3.993	26.06	26.06	260615	260615
substrate plastic	plastics	bismaleimide triazine resin	-	1.190	7.76		77633	
	inorganic material	aluminiumhydroxide	21645-51-2	1.309	8.54		85396	
	inorganic material	glass fibre	-	2.260	14.75	31.05	147503	310532
*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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