



Material Content Data Sheet



| Sales Product Name | | SAK-TC1797-512F180EF AC | | | Issued | | 19. January 2018 | | |
|---------------------------|--------------------|-----------------------------|-----------------------|----------------|------------------------|------------|--------------------------|--------------|--|
| MA# | | MA001248234 | | | | | | | |
| Package | | P-BGA-416-27 | | | Weight* | | 3228.52 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 | 16995 | 16995 | |
| wire | non noble metal | copper | 7440-50-8 | 4.217 | 0.13 | 0.13 | 1306 | 1306 | |
| encapsulation | organic material | carbon black | 1333-86-4 | 2.379 | 0.07 | | 737 | | |
| | inorganic material | silicondioxide | 60676-86-0 | 146.328 | 4.53 | | 45324 | | |
| substrate | plastics | epoxy resin | - | 1040.952 | 32.24 | 36.84 | 322423 | 368484 | |
| | plastics | epoxy resin | - | 22.546 | 0.70 | | 6984 | | |
| | inorganic material | bariumsulfate | 7727-43-7 | 34.597 | 1.07 | | 10716 | | |
| | plastics | acrylic resin | - | 40.039 | 1.24 | | 12402 | | |
| | plastics | bismaleimide triazine resin | - | 122.239 | 3.79 | | 37862 | | |
| | inorganic material | aluminiumhydroxide | 21645-51-2 | 134.463 | 4.16 | | 41649 | | |
| | inorganic material | glass fibre | - | 232.255 | 7.19 | | 71938 | | |
| plating | non noble metal | copper | 7440-50-8 | 961.301 | 29.78 | 47.93 | 297753 | 479304 | |
| | noble metal | gold | 7440-57-5 | 2.541 | 0.08 | | 787 | | |
| | non noble metal | nickel | 7440-02-0 | 6.955 | 0.22 | 0.30 | 2154 | 2941 | |
| solderball | non noble metal | lead | 7439-92-1 | 153.661 | 4.76 | | 47595 | | |
| | non noble metal | tin | 7440-31-5 | 261.638 | 8.10 | 12.86 | 81040 | 128635 | |
| glue | plastics | epoxy resin | - | 1.884 | 0.06 | | 584 | | |
| | noble metal | silver | 7440-22-4 | 5.652 | 0.18 | 0.24 | 1751 | 2335 | |
| *deviation | < 10% | | | | Sum in total: | 100.00 | | 1000000 | |

Important Remarks:

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