

External_Type	Material_Group	Substances	CAS_Number	Mass	Mass_Percentage_in_Leaf	Massmg
Die	Doped silicon	Silicon (Si)	7440-21-3	0.73381	100.0	1.7
Subtotal				0.73381	100	1.7
Post-plating	Tin solder	Bismuth (Bi)	7440-69-9	0	0.0	0
	Tin solder	Tin (Sn)	7440-31-5	1.58832	99.99	3.67963
	Tin solder	Copper (Cu)	7440-50-8	0	0.0	0
	Tin solder	Lead (Pb)	7439-92-1	0.00016	0.01	0.00037
	Tin solder	Antimony (Sb)	7440-36-0	0	0.0	0
Subtotal				1.58848	100	3.68
Lead Frame	Copper alloy	Phosphorous (P)	7723-14-0	0.01196	0.03	0.02772
	Copper alloy	Iron (Fe)	7439-89-6	0.03988	0.1	0.09239
	Copper alloy	Copper (Cu)	7440-50-8	39.72084	99.6	92.02044
	Pure metal layer	Silver (Ag)	7440-22-4	0.10768	0.27	0.24945
	Subtotal			39.88036	100	92.39
Adhesive	Polymer	Paraffin wax	8002-74-2	0.18475	20.0	0.428
	Polymer	Epoxy resin system		0.0739	8.0	0.1712
	Filler	Silver (Ag)	7440-22-4	0.66509	72.0	1.5408
Subtotal				0.92374	100	2.14
Mould Compound	Polymer	Tetrabromobisphenol A/Epichlorohydrin polymer	40039-93-8	1.42143	2.5	3.293
	Polymer	Phenol Formaldehyde resin (generic)	9003-35-4	4.26429	7.5	9.879
	Filler	Silica -amorphous-	7631-86-9	21.03718	37.0	48.7364
	Pigment	Carbon black	1333-86-4	0.28429	0.5	0.6586
	Polymer	Epoxy resin system		8.52859	15.0	19.758
	Filler	Silicon Dioxide (SiO2)	14808-60-7	21.03718	37.0	48.7364
	Flame retardant	Antimony Trioxide (Sb2O3) - cas no. 1309-64-4	1309-64-4	0.28429	0.5	0.6586
Subtotal				56.85725	100	131.72
Wire	Pure metal	Gold (Au)	7440-57-5	0.01636	100.0	0.0379
Subtotal				0.01636	100	0.0379
Total				100	100	231.6679

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