

External_Type	Material_Group	Substances	CAS_Number	Mass	Mass_Percentage_in_Leaf	Massmg
Die	Metal oxide	Lead Dioxide (PbO2)	1309-60-0	0.00279	1.35	0.04185
	Doped silicon	Silicon (Si)	7440-21-3	0.20359	98.65	3.05815
Subtotal				0.20638	100	3.1
Solder Wire	Tin alloy	Tin (Sn)	7440-31-5	0.01144	10.0	0.17187
	Silver alloy	Silver (Ag)	7440-22-4	0.00229	2.0	0.03437
	Lead alloy	Lead (Pb)	7439-92-1	0.10069	88.0	1.51248
Subtotal				0.11442	100	1.71872
Wire	Pure metal	Aluminium (Al)	7429-90-5	0.28016	100.0	4.20829
	Subtotal				0.28016	100
Lead Frame	Copper alloy	Phosphorous (P)	7723-14-0	0.00978	0.03	0.14694
	Pure metal layer	Zinc (Zn)	7440-66-6	0.00652	0.02	0.09796
	Pure metal layer	Tin (Sn)	7440-31-5	0.00978	0.03	0.14694
	Pure metal layer	Iron (Fe)	7439-89-6	0.03587	0.11	0.53877
	Pure metal layer	Copper (Cu)	7440-50-8	32.54491	99.81	488.8594
Subtotal				32.60686	100	489.79001
Post-plating	Pure metal	Tin (Sn)	7440-31-5	0.32288	100.0	4.85
	Subtotal				0.32288	100
Mould Compound	Polymer	Phenol Formaldehyde resin (generic)	9003-35-4	5.31754	8.0	79.8752
	Filler	Silica fused	60676-86-0	53.84013	81.0	808.7364
	Metal hydroxide	Metal hydroxide		0.46529	0.7	6.98908
	Carbon Black	Carbon black	1333-86-4	0.19941	0.3	2.99532
	Polymer	Epoxy resin system		6.64693	10.0	99.844
Subtotal				66.4693	100	998.44
Total				100	100	1502.10702

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