

External_Type	Material_Group	Substances	CAS_Number	Mass	Mass_Percentage_in_Leaf	Massmg
Wire	Pure metal	Aluminium (Al)	7429-90-5	0.00156	100.0	0.03313
			<b>Subtotal</b>	<b>0.00156</b>	<b>100</b>	<b>0.03313</b>
Solder Wire	Tin alloy	Tin (Sn)	7440-31-5	0.04225	90.0	0.9
	Tin alloy	Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.00023	0.5	0.005
	Tin alloy	Silver (Ag)	7440-22-4	0.00117	2.5	0.025
	Tin alloy	Antimony (Sb)	7440-36-0	0.00329	7.0	0.07
			<b>Subtotal</b>	<b>0.04694</b>	<b>100</b>	<b>1</b>
Die	Doped silicon	Silicon (Si)	7440-21-3	0.32391	100.0	6.9
			<b>Subtotal</b>	<b>0.32391</b>	<b>100</b>	<b>6.9</b>
Wire	Pure metal	Aluminium (Al)	7429-90-5	0.01219	100.0	0.25977
			<b>Subtotal</b>	<b>0.01219</b>	<b>100</b>	<b>0.25977</b>
Heat Spreader	Copper alloy	Phosphorous (P)	7723-14-0	0.0169	0.03	0.36
	Copper alloy	Iron (Fe)	7439-89-6	0.05633	0.1	1.2
	Copper alloy	Copper (Cu)	7440-50-8	56.25969	99.87	1,198.44
			<b>Subtotal</b>	<b>56.33292</b>	<b>100</b>	<b>NaN</b>
Post-plating	Pure Metal	Tin (Sn)	7440-31-5	1.26749	100.0	27
			<b>Subtotal</b>	<b>1.26749</b>	<b>100</b>	<b>27</b>
Lead Frame	Copper alloy	Phosphorous (P)	7723-14-0	0.00563	0.03	0.12
	Copper alloy	Iron (Fe)	7439-89-6	0.01878	0.1	0.4
	Copper alloy	Copper (Cu)	7440-50-8	18.75323	99.87	399.48
			<b>Subtotal</b>	<b>18.77764</b>	<b>100</b>	<b>400</b>
Die Attach	Lead alloy	Tin (Sn)	7440-31-5	0.05868	5.0	1.25
	Lead alloy	Silver (Ag)	7440-22-4	0.02934	2.5	0.625
	Lead alloy	Lead (Pb)	7439-92-1	1.08558	92.5	23.125
			<b>Subtotal</b>	<b>1.1736</b>	<b>100</b>	<b>25</b>
Isolator	Copper alloy	Phosphorous (P)	7723-14-0	0.00422	0.1	0.09
	Copper alloy	Aluminium Trioxide (Al2O3)	1344-28-1	3.87007	91.6	82.44
	Copper alloy	Nickel (Ni) - cas no. 7440-02-0	7440-02-0	0.03802	0.9	0.81
	Copper alloy	Molybdenum (Mo)	7439-98-7	0.29575	7.0	6.3
	Copper alloy	Manganese (Mn)	7439-96-5	0.0169	0.4	0.36
			<b>Subtotal</b>	<b>4.22496</b>	<b>100</b>	<b>90</b>
Mould Compound	Polymer	Phenol Formaldehyde resin (generic)	9003-35-4	0.26758	1.5	5.7
	Polymer	Epichlorohydrin/Diethyleneglycol Epoxy resin (generic)	25928-94-3	1.69468	9.5	36.1
	Filler	Silica fused	60676-86-0	15.69811	88.0	334.4
	Carbon Black	Carbon black	1333-86-4	0.17839	1.0	3.8
			<b>Subtotal</b>	<b>17.83876</b>	<b>100</b>	<b>380</b>
			<b>Total</b>	<b>99.99997</b>	<b>100</b>	<b>NaN</b>

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