

**16 Leads - SOIC WB Open Cavity  
Package Material Declaration**



Date	22-Oct-18	Product name	Integrated Circuit
Package Code	XG	RoHS Compliant	Y
Package Name	Open cavity Plastic Small Outline, 300mil	Halogen Free	Y
Product Total Mass (g)	0.40000	Plating	NiPdAu
<b>Product Number</b>	MLX90809		

**Material Declaration**

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	High Copper Alloy C194	0.09026	Copper (Cu)	7440-50-8	97.15	0.08769	219217
			Iron (Fe)	7439-89-6	2.5	0.00226	5641
			Phosphorus (P)	7723-14-0	0.15	0.00014	338
			Zinc (Zn)	7440-66-6	0.2	0.00018	451
Frame Plating	NiPdAu	0.00974	Nickel (Ni)	7440-2-0	86	0.00838	20941
			Palladium (Pd)	7440-05-3	12	0.00117	2922
			Gold (Au)	7440-57-5	2	0.00019	487
Die	Silicon IC	0.02000	Silicon (Si)	7440-21-3	99.99	0.02000	49995
			other	-	0.01	0.00000200	5
Die attach material	Adhesive	0.00131	Silver (Ag)	7440-22-4	74	0.00097	2416
			Epoxy resin A	9003-36-5	6	0.00008	196
			Epoxy resin B	Trade Secret	6	0.00008	196
			Diluent	Trade Secret	8	0.00010	261
			Hardener	Trade Secret	4.2	0.00005	137
			other	-	1.8	0.00002	59
Wire	Gold	0.00162	Gold (Au)	7440-57-5	99.99	0.00162	4041
			other	-	0.01	0.00000016	0.4
Gel coat	Fluorosilicone Rubber Compound	0.01458	Flourine	Trade Secret	15	0.00219	5467
			polysiloxane	Trade Secret	75	0.01094	27337
			Gamma Butyrolactone	96-48-0	3.4	0.00050	1239
			Metal Oxide	Trade Secret	3.3	0.00048	1203
			Aromatic Amine	Trade Secret	3.3	0.00048	1203
Encapsulation	Epoxy resin G770HCD	0.26250	Silica Fused	60676-86-0	89.5	0.23494	587340
			Epoxy Resin	Trade Secret	5	0.01313	32812
			Phenol Resin	Trade Secret	5	0.01313	32812
			Carbon Black	1333-86-4	0.5	0.00131	3281

**Total package weight (g)** 0.40000

**Comments**

- Composition derived from MSDS and material CoC from vendors
- Component weight based on assembly of generic parts
- Reliability qualification reports are available upon request through the appropriate sales or marketing contact
- Third party testing for RoHS substances are available upon request to environment@melexis.com

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