

## 8 Leads - SOIC Cavity Package Material Declaration



Date	04-Jul-18	Product name	Integrated Circuit
Package Code	XD	RoHS Compliant	Y
Package Name	Open cavity SOIC-8 package for opto sensors	Halogen Free	Y
Product Total Mass (g)	0.07413	Plating	NiPdAu

**Product Number** MLX75305

### Material Declaration

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Copper Alloy C194	0.029795	Copper (Cu)	7440-50-8	97.45	0.02904	391672
			Iron (Fe)	7439-89-6	2.4	0.00072	9646
			Zinc (Zn)	7440-66-6	0.12	0.00004	482
			Phosphorus (P)	7723-14-0	0.03	0.00001	121
Plating	NiPdAu	0.00025	Nickel (Ni)	7440-2-0	100	0.00025	3406
			Palladium (Pd)	7440-05-3	100	0.00001	122
			Gold (Au)	7440-57-5	100	0.000003	41
Die	Silicon IC	0.0015	Silicon (Si)	7440-21-3	99.99	0.0015	20232
			others	-	0.01	0.0000002	2
Die attach material	Ablebond 8290	0.00021	Epoxy resin	Trade secret	15	0.00003	425
			Silver (Ag)	7440-22-0	75	0.0002	2125
			Gamma butyrolactone	96480	3.4	0.00001	96
			Metal Oxide	Trade secret	3.3	0.00001	93
			Aromatic amine	Trade secret	3.3	0.00001	93
Wire	Gold	0.000002	Gold (Au)	7440-57-5	99.99	0.000002	27
			others	-	0.01	0.0000000002	0.003
Encapsulation	Epoxy resin CEL9220HF	0.04236	Silica Fused	60676-86-0	91.05	0.03857	520275
			Phenol Resin	Trade secret	3.5	0.00148	20000
			Epoxy resin 1	Trade secret	1.75	0.00074	10000
			Epoxy resin 2	Trade secret	1.75	0.00074	10000
			Epoxy resin 3	Trade secret	1.75	0.00074	10000
			Carbon Black	133-86-4	0.2	0.00008	1143

**Total package weight (g)** 0.07413

### 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](mailto:environment@melexis.com)

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