

**8 Leads - SOIC**  
**Package Material Declaration**



Date	01-Nov-18	Product name	Integrated Circuit
Package Code	DC	RoHS Compliant	Y
Package Name	Plastic Small Outline 150mil	Halogen Free	Y
Product Total Mass (g)	0.0872	Plating	Pure Matte Sn
<b>Product Number</b>	MLX90291		

**Material Declaration**

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Zirconium Copper C151	0.0240	Copper (Cu) (Remaining)	7440-50-8	99.94	0.02400	275305
			Zirconium (Zr) (0.05~0.15%)	7440-67-7	0.06	0.00001	165
Plating	Silver	0.0002	Silver (Ag)	7440-22-4	100	0.00024	2783
Die	Silicon	0.0026	Silicon (Si)	7440-21-3	99.99	0.00263	30171
			others	-	0.01	0.0000003	3
Die attach material	Conductive epoxy 84LMISR-4	0.0011	Silver Ag (70~85%)	7440-22-4	80	0.00090	10372
			Epoxy resin (5~25%)	Proprietary	15	0.00017	1945
			Aromatic amine (1~10%)	Proprietary	5	0.00006	648
Wire	Gold	0.0003	Gold (Au)	7440-57-5	99.99	0.00030	3442
			Others	-	0.01	0.000000030	0.3
Lead Finish	Alloy	0.0014	Tin (Sn)	7440-31-5	99.99	0.00137	15717
			Others	-	0.01	0.00000014	2
Encapsulation	Epoxy resin G600C	0.0817	Silica fused (75~95%)	60676-86-0	87.7	0.07168	822363
			Epoxy resin (2~8%)	Proprietary	5	0.00409	46885
			Epoxy, Cresol Novolac (1~3%)	29690-82-2	2	0.00163	18754
			Phenol Resin (2~8%)	Proprietary	5	0.00409	46885
			Carbon Black (0.1~0.5%)	1333-86-4	0.3	0.00025	2813

**Total package weight (g)** 0.0872

**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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