

28 Leads - TSSOP_EP
Package Material Declaration



Date	14-Jul-17	Product name	Integrated Circuit
Package Code	GO	RoHS Compliant	Y
Package Name	Thin Plastic Shrink Small Outline, 173mil	Halogen Free	Y
Product Total Mass (g)	0.10900	Plating	Pure Matte Sn

Product Number MLX83100

Material Declaration

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Copper Nickel CDA 7025	0.03733	Copper (Cu)	7440-50-8	96.2	0.03591	329463
			Nickel (Ni)	7440-02-0	3	0.00112	10274
			Silicon (Si)	7440-21-3	0.65	0.00024	2226
			Magnesium (Mg)	7439-95-4	0.15	0.00006	514
Frame plating	Ag plating	0.00004	Silver (Ag)	7440-22-4	100	0.00004	367
Die	Silicon IC	0.00941	Silicon (Si)	7440-21-3	99.99	0.00941	86322
			others	-	0.01	0.000001	9
Die attach material	Epoxy 8290	0.00228	Epoxy resin A	Trade Secret	7	0.00016	1465
			Epoxy resin B	Trade Secret	4	0.00009	837
			Silver (Ag)	7440-22-4	77	0.00176	16113
			Lactone	Trade Secret	4	0.00009	837
			Polyoxypropylenediamine	Trade Secret	4	0.00009	837
			2,6-Diglycidyl phenyl allyl ether	Trade Secret	4	0.00009	837
Wire	Gold	0.00046	Gold (Au)	7440-57-5	99	0.00046	4178
			Palladium (Pd)	7440-05-3	1	0.0000046	42
Lead Finish	Alloy	0.00272	Tin (Sn)	7440-31-5	99.99	0.00272	24988
			others	-	0.01	0.0000003	2
Encapsulation	EME G700K	0.05676	Epoxy resin	Trade Secret	9	0.00511	46862
			Silica fused	60676-86-0	84	0.04767	437378
			Phenol Resin	Trade Secret	6.5	0.00369	33845
			Carbon Black	1333-86-4	0.5	0.00028	2603

Total package weight (g) 0.10900

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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