

**26 Leads - QFN Quad 4x6
Package Material Declaration**

Date	01-Oct-19	Product name	Integrated Circuit
Package Code	LW	RoHS Compliant	Y
Package Name	Micro Leadframe Package Quad	Halogen Free	Y
Product Total Mass (g)	0.06410	Plating	electroplating+Sn immersion

Product Number MLX90342

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	0.02582	Copper (Cu)	7440-50-8	97.15	0.02508	391305
			Iron (Fe)	7439-89-6	2.5	0.00065	10070
			Phosphorus (P)	7723-14-0	0.15	0.00004	604
			Zinc (Zn)	7440-66-6	0.2	0.00005	806
Leadframe Plating	Silver	0.00027	Silver (Ag)	7440-22-4	100	0.00027	4217
Die	Silicon	0.00508	Silicon (Si)	7440-21-3	99.99	0.00508	79240
			others	-	0.01	0.0000005	8
Die attach material	Silver-Epoxy Adhesive EN4900GC	0.00075	Silver (Ag)	7440-22-4	82	0.00062	9594
			Epoxy resin	-	4	0.00003	468
			Copolymer of Epoxy	-	2	0.00002	234
			Acrylic resin	-	5	0.00004	585
			Acrylate-butadiene rubber	-	4	0.00003	468
Further Additives	others	3	0.00002	351			
Wire	Gold with Palladium	0.00016	Gold (Au)	7440-57-5	99	0.00016	2517
			Palladium (Pd)	7440-05-3	1	0.000002	25
Lead Finish	Tin	0.00102	Tin (Sn)	7440-31-5	99.99	0.00102	15910
			others	7439-92-1	0.01	0.00000010	2
Encapsulation	Epoxy resin EMEG770HCD	0.03100	Silica Fused	60676-86-0	93.7	0.02905	453130
			Epoxy Resin	-	3	0.00093	14508
			Phenol Resin	-	3	0.00093	14508
			Carbon Black	1333-86-4	0.3	0.00009	1451

Total package weight (g) 0.06410

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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