



Full Material Declaration (FMD) for LGA Package Series

PN Type	Weight	UOM	Material Name	Material Weight	UOM	identity	Substances	name	CAS Number	authority	Chemical Mass Product (mg)	UOM				
LGA-4	1003.818979	mg	Wafer	999.926	mg	Supplier	aluminium powder (stabilised)	aluminium powder (stabilised)	7429-90-5	CAS	2.37	mg				
											calcium	calcium	7440-70-2	CAS	0.012	mg
											Red phosphorus	Red phosphorus	7723-14-0	CAS	0.039	mg
											Silicon	Silicon	7440-21-3	CAS	996.4	mg
											Titanium	Titanium	7440-32-6	CAS	0.403	mg
											Biocidal coatings/biocidal additives	copper	7440-50-8	CAS	0.013	mg
											Cobalt/cobalt compounds	cobalt	7440-48-4	CAS	0.016	mg
											Tungsten/tungsten compounds	Tungsten	7440-33-7	CAS	0.673	mg
			Bonding Wire	0.0937	mg	Supplier	impurity	impurity	No CAS Reference	Supplier	0.000937	mg				
						Supplier	Gold/gold compounds	Gold	7440-57-5	CAS	0.092763	mg				
			Die	0.6189	mg	Supplier	Silicon	Silicon	7440-21-3	CAS	0.6189	mg				
			Die Attach Material	0.0908	mg	Supplier	Adhesion promoter	Adhesion promoter	No CAS Reference	Supplier	0.00227	mg				
						Supplier	Allyl compound	Allyl compound	No CAS Reference	Supplier	0.01362	mg				
						Supplier	cyclohexylidenebis[tert-butyl] peroxide	cyclohexylidenebis[tert-butyl] peroxide	3006-86-8	CAS	0.000454	mg				
						Supplier	Diluent	Diluent	No CAS Reference	Supplier	0.005448	mg				
						Supplier	Epoxy resin	Epoxy resin	No CAS Reference	Supplier	0.00908	mg				
						Supplier	ethylene dimethacrylate	ethylene dimethacrylate	97-90-5	CAS	0.00908	mg				
						Supplier	Formaldehyde, polymer with 2-(chloromethyl)ethylamine	Formaldehyde, polymer with 2-(chloromethyl)ethylamine	9003-36-5	CAS	0.005448	mg				
						Supplier	Guanidine, N-cyano-	Guanidine, N-cyano-	461-58-5	CAS	0.000454	mg				
						Supplier	Hardener	Hardener	No CAS Reference	Supplier	0.005448	mg				
						Supplier	Silica A	Silica A	No CAS Reference	Supplier	0.003178	mg				
			Supplier	Silica, crystalline (airborne particles)	Silica	7631-86-9	CAS	0.03632	mg							
			Molding Compound	1.2224	mg	Supplier	bi(glutathion-S-yl)	bi(glutathion-S-yl)	27025-41-8	CAS	0.000037	mg				
						Supplier	Carbon black	Carbon black	1333-86-4	CAS	0.003667	mg				
						Supplier	Epoxy Resin	Epoxy Resin	No CAS Reference	Supplier	0.041525	mg				
						Supplier	Phenol Resin	Phenol Resin	No CAS Reference	Supplier	0.036672	mg				
						Supplier	Silica, vitreous	Silica, vitreous	60676-86-0	CAS	0.9168	mg				
						Supplier	Crystalline silicon dioxide (Free silica)	Quartz (SiO2)	14808-60-7	CAS	0.003667	mg				
						Supplier	Silica, crystalline (airborne particles)	Silica	7631-86-9	CAS	0.220032	mg				
			Substrate	1.865004	mg	Supplier	- Proprietary Data	- Proprietary Data	Proprietary Data	Supplier	0.046998	mg				
						Supplier	(2-methoxymethylethoxy)propanol	(2-methoxymethylethoxy)propanol	34590-94-8	CAS	0.007833	mg				
						Supplier	1H-Pyrrole-2,5-dione, 1,1'-(methylenebis)	1H-Pyrrole-2,5-dione, 1,1'-(methylenebis)	105391-33-1	CAS	0.163188	mg				
						Supplier	aluminium hydroxide	aluminium hydroxide	21645-51-2	CAS	0.012123	mg				
						Supplier	Cyanic acid, C,C'-[(1-methylethylidene)bis]	Cyanic acid, C,C'-[(1-methylethylidene)bis]	25722-66-1	CAS	0.163188	mg				
						Supplier	Formaldehyde, polymer with 2-(chloromethyl)ethylamine	Formaldehyde, polymer with 2-(chloromethyl)ethylamine	9003-36-5	CAS	0.304368	mg				
						Supplier	Sulfuric acid, barium salt (1:1)	Sulfuric acid, barium salt (1:1)	7727-43-7	CAS	0.060799	mg				
						Supplier	Biocidal coatings/biocidal additives	copper	7440-50-8	CAS	0.407316	mg				
						Supplier	Carcinogenic 2	2,2'-[(3,3',5,5'-tetramethyl-1,1'-diethylidene)bis]	85954-11-6	CAS	0.008393	mg				
						Supplier	Critical Raw Materials	Talc (Mg3H2(SiO3)4)	14807-96-6	CAS	0.043828	mg				
						Supplier	Gold/gold compounds	Gold	7440-57-5	CAS	0.013988	mg				
						Supplier	Lead and lead compounds	Glass wool fibers (inhalable and ingestible)	65997-17-3	CAS	0.528728	mg				
						Supplier	Nickel, where prolonged skin contact	Nickel	7440-02-0	CAS	0.085044	mg				
						Supplier	Silica, crystalline (airborne particles)	Silica	7631-86-9	CAS	0.01921	mg				
			Proprietary Data	0.0021752	mg	Supplier	Proprietary Data	- Proprietary Data	Proprietary Data	Supplier	0.0021752	mg				