AICROCHIP Semiconductor Device Type:	RJC	TFBGA-196-8x8x1.2mm-SnPb	1							
Semiconductor Device Type.	RJC	"Contained In"	% Total			11.35	(mg) Total	Die	% of Total Weight	
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	11.35	(ilig) Total		% Of Total Weight	•
Silicon	7440-21-3	Die	5.62	11.35	56166		Silicon	7440-21-3	100.00	
Glass, oxide	65997-17-3	Substrate	2.61	5.28	26107			Total	100.00	
Aluminium hydroxide oxide	24623-77-6	Substrate	1.26	2.55	12618					
Bismaleimide-Triazine Resin	Trade Secret	Substrate	0.88	1.79	8838	45.90	(mg) Total	Substrate	% of Total Weight	2
Epoxy Resin	Trade Secret	Substrate	0.59	1.20	5931		Glass, oxide	65997-17-3	11.49	
Other	Trade Secret	Substrate	0.45	0.92	4535		Aluminium hydroxide oxide	24623-77-6	5.56	
Bisphenol A	80-05-7	Substrate	0.01	0.02	116		Bismaleimide-Triazine Resin	Trade Secret	3.89	
Glass, oxide	65997-17-3	Substrate	3.48	7.03	34795		Epoxy Resin	Trade Secret	2.61	
Aluminium hydroxide oxide	24623-77-6	Substrate	1.68	3.40	16816		Other	Trade Secret	2.00	
Bismaleimide-Triazine Resin	Trade Secret	Substrate	1.18	2.38	11779		Bisphenol A	80-05-7	0.05	
Epoxy Resin	Trade Secret	Substrate	0.79	1.60	7904		Glass, oxide	65997-17-3	15.32	
Other	Trade Secret	Substrate	0.60	1.22	6045		Aluminium hydroxide oxide	24623-77-6	7.40	
Bisphenol A	80-05-7	Substrate	0.02	0.03	155		Bismaleimide-Triazine Resin	Trade Secret	5.19	
Copper	7440-50-8	Substrate	2.33	4.70	23258		Epoxy Resin	Trade Secret	3.48	
Other Organic Compounds	Trade Secret	Substrate	0.06	0.12	581		Other	Trade Secret	2.66	
Other Epoxy Resins	Trade Secret	Substrate	2.98	6.03	29843		Bisphenol A	80-05-7	0.07	
Other Organic Compounds	Trade Secret	Substrate	0.00	0.01	48		Copper	7440-50-8	10.24	
Phthalocyanine Blue	147-14-8	Substrate	0.01	0.02	97 1744		Other Organic Compounds	Trade Secret	0.26	
Talc	14807-96-6	Substrate	0.17	0.35			Other Epoxy Resins	Trade Secret	13.14	
Silicon dioxide	7631-86-9	Substrate	0.04	0.09	436		Other Organic Compounds	Trade Secret 147-14-8	0.02	
Barium sulfate Other	7727-43-7	Substrate	1.51 0.06	3.04 0.13	15067 630		Phthalocyanine Blue	147-14-8	0.04	
Nickel	Trade Secret 7440-02-0	Substrate Substrate	1.63	3.29	16267		Talc Silicon dioxide	7631-86-9	0.77	
Gold	7440-02-0	Substrate	0.35	0.71	3527		Barium sulfate	7631-86-9	6.63	
Silver	7440-37-3	Die Attach	0.35	0.71	2510		Other	Trade Secret	0.28	
Tetramethylene dimethacrylate	2082-81-7	Die Attach	0.23	0.06	282		Nickel	7440-02-0	7.16	
Difunctional Acrylic Esters	Trade Secret	Die Attach	0.03	0.00	28		Gold	7440-57-5	1.55	
Gold	7440-57-5	Bonding Wire	1.24	2.51	12444		Gold	Total	100.00	
Palladium	7440-05-3	Bonding Wire	0.01	0.03	126			Total	100.00	
Tin	7440-31-5	Solder Paste	7.60	15.35	75975	0.57	(mg) Total	Die Attach	% of Total Weight	(
Lead	7439-92-1	Solder Paste	4.46	9.02	44620	0.07	Silver	7440-22-4	89.00	
Silica, vitreous	60676-86-0	Molding Compound (Encapsulation)	51.39	103.85	513929		Tetramethylene dimethacrylate	2082-81-7	10.00	
Epoxy Resin	Trade Secret	Molding Compound (Encapsulation)	2.32	4.69	23228		Difunctional Acrylic Esters	Trade Secret	1.00	
Phenol Resins	Trade Secret	Molding Compound (Encapsulation)	1.74	3.52	17421			Total	100.00	
Carbon Black	1333-86-4	Molding Compound (Encapsulation)	0.29	0.59	2904					
Metal Hydroxide	Trade Secret	Molding Compound (Encapsulation)	1.74	3.52	17421	2.54	(mg) Total	Bonding Wire	% of Total Weight	
Crystalline silica	14808-60-7	Molding Compound (Encapsulation)	0.58	1.17	5807		Gold	7440-57-5	99.00	
		TOTALS:		202.08	1,000,000		Palladium	7440-05-3	1.00	
	202.09	mg Total Mass			.,,			Total	100.00	
	202.00	ing rotal mass						Total	100.00	
on contained in this Material Content Declaration (MCD) consists o he package type.	f package-level information and is no	t part number specific. This information is considered	to be sufficier	ntly representa	tive of all part	24.37	(mg) Total	Solder Paste	% of Total Weight	1
		de including hut not limited to Delle DEACH and Chi	D-US A				Tin	7440-31-5	63.00	
chnology Incorporated designs all products to comply with global to be compliant with IEC62474. For specific compliance information					cinp products		Lead	7439-92-1	37.00	
to be compliant with IEC62474. For specific compliance informatio	m, please check our product material	compliance website on microchip.com or ask your lo	Lai sales repre	sentative.	-		Leau		100.00	
chnology Incorporated believes the information in this MCD is true								Total	100.00	
completeness and accuracy of data in this form because it has be						117.35	(mg) Total	Molding Compound	% of Total Weight	
n disclosure as trade secrets and some information may not have					average weight	117.35	, ,,	(Encapsulation)		5
. These estimates do not include trace levels of dopants, impurities	s, metals, and non-metallic materials	which may be contained within silicon devices (silicor	IC) or the fini	shed parts.			Silica, vitreous	60676-86-0	88.50	
					[Epoxy Resin	Trade Secret	4.00	
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GE100LFCS-2300 1:57 PM: 5/31/2024

Phenol Resins

Carbon Black

Metal Hydroxide

Crystalline silica

202.08

Trade Secret

1333-86-4

Trade Secret

14808-60-7

Total

3.00

0.50

3.00

1.00

100.00

100.00