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MICROCHI	P

Semiconductor Device Type:	QZC	PBGA-484-23x23x2.44mm-SAC305								
	 -	"Contained In"	% Total			1087.47	(mg) Total	Mold Compound	% of Total Weight	45.3
Basic Substance	CAS Number	Sub-Component	Weight	mg/part	ppm	1087.47				45.3
Epoxy Resin A	Trade Secret	Mold Compound	1.36	32.62	13601		Epoxy Resin A	Trade Secret	3.00	
Epoxy Resin B	Trade Secret	Mold Compound	1.36	32.62	13601		Epoxy Resin B	Trade Secret	3.00	
Phenol Resin Silica, vitreous	Trade Secret 60676-86-0	Mold Compound Mold Compound	1.36 32.87	32.62 788.41	13601 328677		Phenol Resin Silica, vitreous	Trade Secret 60676-86-0	3.00 72.50	
Silica, vitreous Silicon dioxide	7631-86-9	Mold Compound Mold Compound	6.80	163.12	68003		Silica, vitreous Silicon dioxide	7631-86-9	15.00	
Aluminium	7429-90-5	Mold Compound	1.36	32.62	13601		Aluminium	7429-90-5	3.00	
Carbon Black	1333-86-4	Mold Compound	0.23	5.44	2267		Carbon Black	1333-86-4	0.50	
Glass, oxide	65997-17-3	Laminate	5.94	142.53	59419		<u>'</u>	Total	100.00	
Aluminium hydroxide oxide	24623-77-6	Laminate	2.87	68.88	28717					
Bismaleimide-Triazine Resin	Trade Secret	Laminate	2.01	48.25	20115	783.80	(mg) Total	Laminate	% of Total Weight	32.6
Epoxy Resin	Trade Secret	Laminate	1.35	32.38	13498		Glass, oxide	65997-17-3	18.18	
Other	Trade Secret	Laminate	1.03	24.76	10322		Aluminium hydroxide oxide	24623-77-6	8.79	
Bisphenol A	80-05-7	Laminate	0.03	0.63	265		Bismaleimide-Triazine Resin	Trade Secret	6.16	
Glass, oxide	65997-17-3	Laminate	2.38	57.01	23768		Epoxy Resin	Trade Secret	4.13	
Aluminium hydroxide oxide	24623-77-6	Laminate	1.15	27.55	11487		Other	Trade Secret	3.16	
Bismaleimide-Triazine Resin	Trade Secret	Laminate	0.80	19.30	8046		Bisphenol A	80-05-7	0.08	
Epoxy Resin	Trade Secret	Laminate	0.54	12.95	5399		Glass, oxide	65997-17-3	7.27	
Other	Trade Secret	Laminate	0.41	9.90	4129		Aluminium hydroxide oxide	24623-77-6	3.52	
Bisphenol A	80-05-7	Laminate	0.01	0.25	106		Bismaleimide-Triazine Resin	Trade Secret	2.46	
Cured Resin	Trade Secret	Laminate	0.92	21.95	9153		Epoxy Resin	Trade Secret	1.65	
Phthalocyanine blue	147-14-8	Laminate	0.00	0.06	24		Other	Trade Secret	1.26	
Other	Trade Secret	Laminate	0.00	0.06	24		Bisphenol A	80-05-7	0.03	
Silica	Trade Secret	Laminate	0.01	0.15	61		Cured Resin	Trade Secret	2.80	
Barium sulfate	7727-43-7	Laminate	0.25	6.05	2522		Phthalocyanine blue	147-14-8	0.01	
Talc	14807-96-6	Laminate	0.03	0.61	255		Other	Trade Secret	0.01	
Other	Trade Secret	Laminate	0.01	0.20	85		Silica	Trade Secret	0.02	
Nickel	7440-02-0	Laminate	0.41	9.79	4082		Barium sulfate	7727-43-7	0.77	
Gold	7440-57-5 7440-50-8	Laminate Laminate	0.09 12.44	2.12 298.39	885 124396		Talc Other	14807-96-6 Trade Secret	0.08	
Copper Tin	7440-31-5	Solder Ball	20.25	485.86	202548		Nickel	7440-02-0	1.25	
Silver	7440-22-4	Solder Ball	0.63	15.10	6295		Gold	7440-57-5	0.27	
Copper	7440-50-8	Solder Ball	0.03	2.52	1051		Copper	7440-50-8	38.07	
Silver	7440-22-4	Die Attach	0.04	0.84	351			Total	100.00	
Tetramethylene dimethacrylate	2082-81-7	Die Attach	0.00	0.06	25					
Acrylic Esters	Trade Secret	Die Attach	0.00	0.00	2	503.48	(mg) Total	Solder Ball	% of Total Weight	20.
Silicon	Trade Secret	Die	0.84	20.10	8379		Tin	7440-31-5	96.50	
Copper	7440-50-8	Wire Bonding	0.12	2.93	1220		Silver	7440-22-4	3.00	
Palladium	7440-05-3	Wire Bonding	0.00	0.06	26		Copper	7440-50-8	0.50	
		TOTALS:	100.00	2398.74	1,000,000			Total	100.00	
	2398.7	4 mg Total Mass					T	T		
tion contained in this Material Content Declaration (MCD) consists o	f package-level information and is r	ot part number specific. This information is considered	to be sufficie	ntly representa	tive of all	0.90	(mg) Total	Die Attach	% of Total Weight	0.0
s for the package type.					ľ		Silver	7440-22-4	93.00	
chnology Incorporated designs all products to comply with global	product material compliance standa	rds, including but not limited to RoHS, REACH, and Chi-	na RoHS. Add	litionally. Micro	ochip		Tetramethylene dimethacrylate	2082-81-7	6.50	
e designed to be compliant with IEC62474. For specific compliance i							Acrylic Esters	Trade Secret	0.50	
echnology Incorporated believes the information in this MCD is true		·	•	•				Total	100.00	
ne completeness and accuracy of data in this form because It has be toom disclosure as trade secrets and some information may not have	been provided by subcontract asse	mblers and raw material suppliers. Information is provide	ded only as es	timates of the	average	20.10	(mg) Total	Die	% of Total Weight	0.8
ese parts. These estimates do not include trace levels of dopants, in	npurities, metals, and non-metallic r	naterials which may be contained within silicon devices	(silicon IC) or	the finished pa	arts.	20.10		_	-	0.0
echnology Incorporated does not provide any warranty, express or i	implied, with respect to the Informat	ion provided in this declaration. The exclusive limited n	roduct warra	nties provided	by Microchin		Silicon	Trade Secret Total	100.00 100.00	
Incorporated, and its subsidiaries are contained in Microchip's standard								i otai	100.00	
	d shall not be liable for any damage	s, direct or indirect, consequential or otherwise, suffere	d by users or	third parties as	s a result of	2.99	(mg) Total	Wire Bonding	% of Total Weight	0.1
	a onan not be hable for any damage	-,,, -					(ilig) rotar	wife Bollaling	70 OI TOTAL TENGINE	
	a onem not so hasto to: any anningo	-,,,,,			-	2.00				
sclaims any duty to notify users of updates or changes to MCDs and liance on the information in MCDs.		,,,,				2.00	Copper Palladium	7440-50-8 7440-05-3	97.90 2.10	

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