

		Package Material Content Declaration						
Package Description	44-Lead, 10.0 x 10.0 x 1.4 mm Body, 0.80 mm Pitch, 2.00 mm Footprint, Low Profile Plastic Quad Flat Package (LQFP)							
Lead Finish	Matte Tin (Sn)	Package Code / GPC			2FB / AYP			
J-STD-609 Category	e3	Termination Base Alloy:			Copper			
Package Material Declaration								
Material	Substance	CAS #	Weight (mg)	Homogeneous Material		Package		
				Percentage	ppm	Percentage	ppm	
Leadframe	Copper (Cu)	7440-50-8	56.675	97.4	974000	16.61	166135	
	Iron (Fe)	7439-89-6	1.396	2.4	24000	0.41	4094	
	Phosphorous (P)	7723-14-0	0.058	0.1	1000	0.02	171	
	Zinc (Zn)	7440-66-6	0.058	0.1	1000	0.02	171	
Sub-Total			58.187	100.0	1000000	17.06	170570	
Integrated Circuit	Silicon (Si)	7440-21-3	9.475	100.0	1000000	2.78	27776	
Sub-Total			9.475	100.0	1000000	2.78	27776	
Die Attach	Silver (Ag)	7440-22-4	0.504	75.8	758000	0.15	1479	
	Bisphenol F Diglycidyl Ether	39817-09-9	0.040	6.0	60000	0.01	117	
	Dihydro-3-(tetrapropenyl)furan-2,5-dione	26544-38-7	0.040	6.0	60000	0.01	117	
	2,6-Diglycidyl Phenyl Allyl Ether Oligomer	Proprietary	0.037	5.6	56000	0.01	109	
	Dodecylloxirane	3234-28-4	0.013	2.0	20000	0.00	39	
	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	0.013	2.0	20000	0.00	39	
	Methylhexahydrophthalic Anhydride	19438-60-9	0.013	2.0	20000	0.00	39	
	Copper Oxide	1317-38-0	0.004	0.6	6000	0.00	12	
Sub-Total			0.665	100.0	1000000	0.20	1951	
Die Pad Plating	Silver (Ag)	7440-22-4	0.810	100.0	1000000	0.24	2375	
Sub-Total			0.810	100.0	1000000	0.24	2375	
Bond Wire	Gold (Au)	7440-57-5	0.549	100.0	1000000	0.16	1610	
Sub-Total			0.549	100.0	1000000	0.16	1610	
Encapsulation	Silica (Amorphous) A	60676-86-0	205.771	77.6	776000	60.32	603197	
	Epoxy Resin	Proprietary	23.335	8.8	88000	6.84	68404	
	Silica (Amorphous) B	7631-86-9	23.335	8.8	88000	6.84	68404	
	Phenol Resin	Proprietary	10.607	4.0	40000	3.11	31093	
	Carbon Black	1333-86-4	2.121	0.8	8000	0.62	6219	
Sub-Total			265.169	100.0	1000000	77.73	777315	
Terminal Plating	Tin (Sn)	7440-31-5	6.278	100.0	1000000	1.84	18403	
Sub-Total			6.278	100.0	1000000	1.84	18403	
Total			341.135			100.00	1000000	

This semiconductor device and its homogenous materials comply with EU Directives: 2002/95/EC (27 January 2003) & Directive 2011/65/EU (08 June 2011) and 2015/863/EU (31 March 2015) and 2002/53/EC (End-of-Life Vehicles (ELV) without exemption (zero).

Compliance with the above EU Directives has been verified via internal design controls, supplier declarations, and /or analytical test data.

If a chemical substance is absent from the list above, the chemical substance is NOT an intentional ingredient in the semiconductor device and, to the best of Microchip Technology Incorporated's knowledge and belief as of the date of this document, there is no credible reason to believe that the unavoidable impurity concentration of the chemical substance, if any, is not below the threshold of regulatory concern for any regulatory scheme world-wide.

Molding compounds used by Microchip meet the UL94 V0 flammability standard for plastics. You can access the UL iQTM family of databases to obtain a test report at <http://ul.com/global/eng/pages/offerings/industries/chemicals/plastics/>.

The protective "tubes" in which the specific product is shipped are made from polyvinyl chloride (PVC) plastic. "Window envelopes" used to hold the packing slip on the outer box and certain "reels" may be made from PVC plastic.

Microchip Technology Incorporated believes the information in this form concerning substances restricted by RoHS in Microchip Technology Incorporated's semiconductor devices in their original packing materials is true and correct to the best of its knowledge and belief, as of the date listed in this form. Microchip Technology Incorporated cannot guarantee the completeness and accuracy of data in this form because it has been compiled based on the ranges provided in Material Safety Data Sheets provided by raw material suppliers. Supplier information is often protected from disclosure as trade secrets and some information may not have been provided by subcontract assemblers and raw material suppliers. Information is provided only as estimates of the average weight of these parts and the average weight of anticipated significant toxic metals components. These estimates do not include trace levels of dopants, metals, and non-metal materials contained within silicon devices (silicon IC) in the finished parts.

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Assembled package referenced above is EU REACH compliant based on the latest SVHC candidate list of ECHA which can be found at <http://echa.europa.eu/web/guest/candidate-list-table>.