IPC ASSOCIATION CONNE	Material Comp © Copyright 2005. Il international and Par	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.								
752-21.1		IPC Web Site for Information on IPC-1752 Standard  Form Type http://www.ipc.org/IPC-175x  Form Type Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and M	Ifg Informat	ion		
upplier Info									,					
Company name*	*		Company un	ique ID		Ţ	Unique ID Autl	nority			Respon	se Date*		
nsemi											2024-04	-26		
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			I	Phone - Representative*				Email - Representative*			
Product-Env-Stewards Produ			Product Envi	duct Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Requ	ester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	n I	Manufacturing Site		Weight*	UOM	Unit Type
		AP0102A A0-MG-	AT2L00XPG TR	1MP CO-PROCES	SSOR		2024-04-26		1	MY5		91.24	mg	Each
<b>Ianufacturi</b> i	ng Proccess Informat	tion												
Termi	nal Plating / Grid Array Ma	aterial T	Terminal Base	Alloy	I-STD-020 MS	L Rating	Peak Proc	ess Body	Temperatu	re Max Time at Peak	Tempera	ture Numb	per of Reflow Cyc	eles
SnAge	Cu	(	CU Alloy	3	3		260		C	30	secoi	nds 3		
omments														
TTENTION: M	ASL 3 Rated item require	s Bake and D	ry Pack (after	electrical test)										
or more inform	ation regarding material	composition	please refer to	page 3										

RoHS Material Composition Declaration			Declaration Type *	Detail	led
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an		
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the company that the company tha	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the hts and/or remedies provided as part of
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	cceptance *	Accepted
Exemption: If the declared item does not applicable exemptions.	contain RoHS restricted substances per	the definition above except for defined Ro	oHS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
Exemption List Version	EL-2011/534/EU				
Declaration Signature					
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recruired by the
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the

## **Homogeneous Material Composition Declaration for Electronic Products**

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	8.58	mg		Misc.	proprietary data		0.0249	mg
			Supplier	Silicon (Si)	7440-21-3		8.5465	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0086	mg
Die Attach	0.9	mg		Bismaleimide Monomer	proprietary data		0.3465	mg
			Supplier	POLY(ETHYLENE GLYCOL) PHENYL ETHER ACRYLATE	56641-05-5		0.0045	mg
			Supplier	2,2-Bis(4-hydroxyphenyl)propane- epichlorohydrin copolymer acrylate	55818-57-0		0.09	mg
			Supplier	Bis(4-tert-butylcyclohexyl) peroxydicarbonate	15520-11-3		0.0045	mg
			Supplier	2,2-dimethyl-1,3-propanediyl dimethacrylate	1985-51-9		0.09	mg
			Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.09	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0045	mg
			Supplier	Other Additive Agents	Proprietary Data		0.18	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.09	mg
Mold Compound-Black	33.58	mg		Epoxy resin	proprietary data		1.5111	mg
			Supplier	Phenolic Resin	enolic Resin Proprietary Data 1.5111	1.5111	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.1007	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		30.4571	mg
Solder Ball	10.5	mg	Supplier	Silver (Ag)	7440-22-4		0.315	mg
			Supplier	Tin (Sn)	7440-31-5		10.1325	mg
			Supplier	Copper (Cu)	7440-50-8		0.0525	mg
Substrate	20.0	mg		Epoxy resin	proprietary data		2.94	mg
			Supplier	Boehmit (Al(OH)O)	1318-23-6		6.1	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3		4.6	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.36	mg
			Supplier	Misc.	Proprietary Data		1.7	mg
			Supplier	Polycarbonite	80-05-7		0.2	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data		4.1	mg
Substrate and Solder Mask	2.48	mg	Supplier	Talc	14807-96-6		0.0893	mg
			Supplier	Epoxy Resin	26875-67-2		1.5277	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0248	mg

			Supplier	Misc.	Proprietary Data	0.067	mg	
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	0.7713	mg	
Substrate Copper Foil	8.66	mg	Supplier	Copper (Cu)	7440-50-8	8.66	mg	
Substrate Plating-Au	1.18	mg	Supplier	Gold (Au)	7440-57-5	1.18	mg	
Substrate Plating-Cu	1.05	mg	Supplier	Copper (Cu)	7440-50-8	1.05	mg	
Substrate Plating-Ni	3.36	mg	В	Nickel (Ni)	7440-02-0	3.36	mg	
Wire Bond - Au	0.95	mg	Supplier	Gold (Au)	7440-57-5	0.95	mg	