



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2015-08-28
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Emilio Castelli	Representative Title	APG MD CHAMPION
Representative Phone *	Refer to "Supplier Comment" section	Representative Email *	Refer to "Supplier Comment" section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/online_tech_support.html		

Uncertainty Statement

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Legal Statement

Supplier Acceptance *	true	Legal Declaration *	Standard
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Legal Statement

Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
E-TDA7384A	H94W*L094HB6	A	SH1A	2015-08-28
	Amount	UoM	Unit type	ST ECOPACK Grade
	7099.40	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
NAC	NAC	NAC		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SMD	15.7x29.23x4.5	25	flat	
Comment				

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	false
Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7a' exemption (other selected exemptions may apply)	true
Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Product(s) is obsolete, no information is available	false
Product(s) is unknown, no information is available	false
Exemption Id.	Description

QueryList : REACH-16th June 2014				
Query				Response
The product does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product

Material Composition Declaration						Mfr Item Name	H94W*L094HB6					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	20.060	mg	supplier	die	Silicon (Si)	7440-21-3		19.171	mg	955683	2700
Die				supplier	metallization	Aluminium (Al)	7429-90-5		0.299	mg	14905	42
Die				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.084	mg	4187	12
Die				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.159	mg	7926	22
Die				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.015	mg	748	2
Die				supplier	back side metallization	Gold (Au)	7440-57-5		0.040	mg	1994	6
Die				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.133	mg	6630	19
Die				supplier	glass coating	Glass: Silicon Dioxide (SiO2)	7631-86-9		0.159	mg	7926	22
Leadframe	Copper & its alloys	5239.517	mg	supplier	alloy	Copper (Cu)	7440-50-8		5214.498	mg	995225	734498
Leadframe				supplier	alloy	Iron (Fe)	7439-89-6		2.402	mg	458	338
Leadframe				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		4.386	mg	837	618
Leadframe				supplier	metallization	Nickel (Ni)	7440-02-0		16.900	mg	3225	2380
Leadframe				supplier	metallization	Silver (Ag)	7440-22-4		1.331	mg	254	187
Die attach		12.978	mg	JIG - R	Soft solder	Lead (Pb)	7439-92-1	7a-Lead in high me	12.653	mg	974958	1782
Die attach				supplier	Soft solder	Silver (Ag)	7440-22-4		0.195	mg	15025	27
Die attach				supplier	Soft solder	Tin (Sn)	7440-31-5		0.130	mg	10017	18
Bonding wire				supplier	wire	Copper (Cu)	7440-50-8		4.424	mg	1000000	623
encapsulation		1781.928	mg	supplier	mold compound	Amorphous Silica	7631-86-9		1514.638	mg	850000	213347
encapsulation				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		106.916	mg	60000	15060
encapsulation				supplier	mold compound	epoxy resin	na		71.277	mg	40000	10040
encapsulation				supplier	mold compound	Phenol resin	na		71.277	mg	40000	10040
encapsulation				supplier	mold compound	Carbon black	1333-86-4		12.474	mg	7000	1757
encapsulation				supplier	mold compound	Bismuth (Bi)	7440-69-9		5.346	mg	3000	753
connections coating	Solder	40.493	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		40.493	mg	1000000	5704