



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D
<i>* : Required Field</i>			

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2012-12-06
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 Group 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/internet/com/support/online_tech_support.jsp		

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
L4995RKTR	G6V5*UH65AA6	A	MU1A	2012-12-06
	Amount	UoM	Unit type	ST ECOPACK Grade
	471.30	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable ; if coating is used o	Tin (Sn), matte, annealed	Copper Alloy		

Material Composition Declaration						Mfr Item Name	GGV5*UH65AA6					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
die (s)	Other inorganic materials	3.775	mg	supplier	die	Silicon (Si)	7440-21-3		3.635	mg	962914	7713
die (s)				supplier	metallization	Aluminium (Al)	7429-90-5		0.027	mg	7152	57
die (s)				supplier	metallization	Copper (Cu)	7440-50-8		0	mg		
die (s)				supplier	metallization	Tantalum (Ta)	7440-25-7		0	mg		
die (s)				supplier	metallization	Cobalt (Co)	7440-48-4		0	mg		
die (s)				supplier	metallization	Titanium (Ti)	7440-32-6		0.004	mg	1060	8
die (s)				supplier	metallization	Tungsten (W)	7440-33-7		0	mg		
die (s)				supplier	metallization	Palladium (Pd)	7440-05-3		0	mg		
die (s)				supplier	metallization	Nickel (Ni)	7440-02-0		0	mg		
die (s)				supplier	metallization	Gold (Au)	7440-57-5		0	mg		
die (s)				supplier	metallization	Platinum (Pt)	7440-06-4		0	mg		
die (s)				supplier	passivation	Silver (Ag)	7440-22-4		0	mg		
die (s)				supplier	passivation	Tin (Sn)	7440-31-5		0	mg		
die (s)				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.006	mg	1589	13
die (s)				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.074	mg	19603	157
die (s)				supplier	passivation	Indium Tin oxide (In2O3:SnO2)	50926-11-9		0	mg		
die (s)				R	passivation	Lead Oxide (PbO)	1317-36-8		0	mg		
die (s)				supplier	back side metallization	Aluminium (Al)	7429-90-5		0	mg		
die (s)				supplier	back side metallization	Copper (Cu)	7440-50-8		0	mg		
die (s)				supplier	back side metallization	Titanium (Ti)	7440-32-6		0	mg		
die (s)				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.002	mg	530	4
die (s)				supplier	back side metallization	Gold (Au)	7440-57-5		0.006	mg	1589	13
die (s)				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.019	mg	5033	40
die (s)				supplier	back side metallization	Vanadium (V)	7440-62-2		0	mg		
die (s)				supplier	back side metallization	Silver (Ag)	7440-22-4		0	mg		
die (s)				supplier	glass coating	Glass : Aluminium Oxide (Al2O3)	1344-28-1		0	mg		
die (s)				supplier	glass coating	Glass : Boron Trioxide (B2O3)	1303-86-2		0	mg		
die (s)				supplier	glass coating	Glass : Potassium Oxide (K2O)	12136-45-7		0	mg		
die (s)				supplier	glass coating	Glass : Sodium Oxide (Na2O)	1313-59-3		0	mg		
die (s)				supplier	glass coating	Glass: Silicon Dioxide (SiO2)	7631-86-9		0.002	mg	530	4
die (s)				supplier	polymer die coating	Benzocyclobutene (BCB)	694-87-1		0	mg		
die (s)				supplier	polymer die coating	Polymer resist - ASAH	NA		0	mg		
die (s)				supplier	polymer die coating	Polymer resist (Black resist)	NA		0	mg		
die (s)				supplier	polymer die coating	Polymer resist (color, planar,µlens)	NA		0	mg		
die (s)				supplier	polymer die coating	Polymer resist (Glue)	NA		0	mg		
UBM		0	mg	supplier	UBM	Aluminium (Al)	7429-90-5		0	mg		
UBM				supplier	UBM	Copper (Cu)	7440-50-8		0	mg		
UBM				supplier	UBM	Titanium (Ti)	7440-32-6		0	mg		
UBM				supplier	UBM	Chromium (Cr)	7440-47-3		0	mg		
UBM				supplier	UBM	Gold (Au)	7440-57-5		0	mg		
UBM				supplier	UBM	Nickel (Ni)	7440-02-0		0	mg		
UBM				supplier	UBM	Vanadium (V)	7440-62-2		0	mg		
UBM				supplier	UBM	Silver (Ag)	7440-22-4		0	mg		
BUMPS		0	mg	supplier	bump	Tin (Sn)	7440-31-5		0	mg		
BUMPS				supplier	bump	Silver (Ag)	7440-22-4		0	mg		
BUMPS				supplier	bump	Copper (Cu)	7440-50-8		0	mg		
BUMPS				supplier	bump	Nickel (Ni)	7440-02-0		0	mg		
BUMPS				supplier	bump	Antimony (Sb)	7440-36-0		0	mg		
BUMPS				R	bump	Lead (Pb)	7439-92-1	15-Lead in solders	0	mg		
Leadframe	Copper & its alloys	163.8	mg	supplier	alloy	Copper (Cu)	7440-50-8		157.678	mg	962625	334560
Leadframe				supplier	alloy	Iron (Fe)	7439-89-6		3.709	mg	22643	7870
Leadframe				supplier	alloy	Phosphorus (P)	12185-10-3		0	mg		
Leadframe				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.223	mg	1361	473
Leadframe				supplier	alloy	Nickel (Ni)	7440-02-0		0	mg		
Leadframe				supplier	alloy	Zinc (Zn)	7440-66-6		0.194	mg	1184	412
Leadframe				supplier	alloy	Magnesium (Mg)	7439-95-4		0	mg		
Leadframe				supplier	alloy	Silicon (Si)	7440-21-3		0	mg		
Leadframe				supplier	alloy	CopperPosphorous (CuP)	12517-41-8		0	mg		
Leadframe				supplier	alloy	Tin (Sn)	7440-31-5		0	mg		

Leadframe			supplier	alloy	Cobalt (Co)	7440-48-4		0	mg		
Leadframe			supplier	alloy	Zirconium (Zr)	7440-67-7		0	mg		
Leadframe			supplier	alloy	Chromium (Cr)	7440-47-3		0	mg		
Leadframe			supplier	alloy	Silver (Ag)	7440-22-4		0	mg		
Leadframe			supplier	alloy	Sulfur (S)	7783-06-4		0	mg		
Leadframe			supplier	alloy	Manganese (Mn)	7439-96-5		0	mg		
Leadframe			supplier	alloy	Carbon	7440-44-0		0	mg		
Leadframe			supplier	tape	0	0		0	mg		
Leadframe			supplier	tape	0	0		0	mg		
Leadframe			supplier	tape	0	0		0	mg		
Leadframe			supplier	tape	0	0		0	mg		
Leadframe			supplier	tape	0	0		0	mg		
Leadframe			supplier	metallization	Nickel (Ni)	7440-02-0		0	mg		
Leadframe			supplier	metallization	Palladium (Pd)	7439-89-6		0	mg		
Leadframe			supplier	metallization	Gold (Au)	12185-10-3		0	mg		
Leadframe			supplier	metallization	Silver (Ag)	7440-22-4		1.996	mg	12186	4235
xxx		0	mg	supplier	metallization	Phosphorus (P)	12185-10-3		0	mg	
xxx				supplier							
xxx				supplier							
xxx				supplier							
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xxx				supplier							
xxx				supplier							
xxx				supplier							
ZZZ		0	mg								
ZZZ											
ZZZ											
Die att		0	mg	JIG Table A	soft solder	Lead (Pb)	7439-92-1		0	mg	
Die att				supplier	glue or tape	Silver (Ag)	7440-22-4		0	mg	
Die att				supplier	glue or tape	Tin (Sn)	7440-31-5		0	mg	
Die att				supplier	glue or tape	0	0		0	mg	
Die att				supplier	glue or tape	0	0		0	mg	
Die att				supplier	glue or tape	0	0		0	mg	
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Die att				supplier	glue or tape	0	0		0	mg	
Die attach 2		0	mg	supplier	glue or tape	0	0		0	mg	
Die attach 2				supplier	glue or tape	0	0		0	mg	
Die attach 2				supplier	glue or tape	0	0		0	mg	
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Die attach 2				supplier	glue or tape	0	0		0	mg	
Die attach 2				supplier	glue or tape	0	0		0	mg	
Die attach 2				supplier	glue or tape	0	0		0	mg	
Die attach		0	mg	supplier	soft solder	0	0	7a-Lead in high me	0	mg	
Die attach				supplier	soft solder	0	0		0	mg	
Die attach				supplier	soft solder	0	0		0	mg	
Die attach				supplier	soft solder	0	0		0	mg	

