



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 *	2013-12-18
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 *	Giovanni Giacopello	Representative Title	AMS & IPD Materials Declaration 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

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
	LD6(*BL1101A	A	SH1A	2013-12-18
Amount	UoM	Unit type	ST ECOPACK Grade	
2.21	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
NAC	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy		
Not Applicable ; if coating is used o	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape
WAFER	2.11 - 1.14 - 0.4	NAC	NAC
Comment	Package:CSPG 0.4; MDF valid forBAL-CC1101-01D3		

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	true
Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)	false
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-20th June 2013				
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	LD6(*BL1101A					
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	1.869	mg	supplier	die	Glass : Aluminium Oxide (Al2O3)	1344-28-1		0.049	mg	26217	26923
die (s)				supplier	die	Glass : Boron Trioxide (B2O3)	1303-86-2		0.229	mg	122525	125824
die (s)				supplier	die	Glass : Potassium Oxide (K2O)	12136-45-7		0.016	mg	8561	8791
die (s)				supplier	die	Glass : Sodium Oxide (Na2O)	1313-59-3		0.049	mg	26217	26923
die (s)				supplier	die	Glass: Quartz	14808-60-7		1.296	mg	693419	712088
die (s)				supplier	metallization	Copper (Cu)	7440-50-8		0.164	mg	87747	90110
die (s)				supplier	passivation	Benzo cyclo buntene	694-87-1		0.001	mg	535	549
die (s)				supplier	passivation	Polyethylene terephthalate	25038-59-9		0.027	mg	14446	14835
die (s)				supplier	passivation	Silica, vitreous	60676-86-0		0.027	mg	14446	14835
die (s)				supplier	passivation	Epoxy resin	Proprietary		0.005	mg	2675	2747
die (s)				supplier	passivation	Acrylic polymer	9003-01-4		0.005	mg	2675	2747
die (s)				supplier	passivation	Carbon black	1333-86-4		0.001	mg	535	549
BUMPS	Solder	0.241	mg	supplier	bump	Tin (Sn)	7440-31-5		0.237	mg	983402	130220
BUMPS				supplier	bump	Silver (Ag)	7440-22-4		0.003	mg	12448	1648
BUMPS				supplier	bump	Copper (Cu)	7440-50-8		0.001	mg	4149	549