



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 *	2013-07-18
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/web/en/support/online_tech_support.html		

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(*BLSPIA1	A	SH1A	2013-07-18
Amount	UoM	Unit type	ST ECOPACK Grade	
3.03	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	Tin/Silver/Copper (Sn/Ag/Cu)	NAC		

Package Designator	Size	Nbr of instances	Shape
WAFER	2.08 - 1.5 - 0.4	6	NAC
Comment	Package: CSPG 0.4		

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-19 December 2012				
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(*BLSPIA1					
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	2.596	mg	supplier	die	Glass : Aluminium Oxide (Al2O3)	1344-28-1		0.078	mg	28457	25760
die (s)				supplier	die	Glass : Boron Trioxide (B2O3)	1303-86-2		0.363	mg	132433	119881
die (s)				supplier	die	Glass : Potassium Oxide (K2O)	12136-45-7		0.026	mg	9486	8587
die (s)				supplier	die	Glass : Sodium Oxide (Na2O)	1313-59-3		0.078	mg	28457	25760
die (s)				supplier	die	Glass: Quartz	14808-60-7		2.051	mg	748267	677345
die (s)				supplier	passivation	Polyethylene terephthalate	25038-59-9		0.059	mg	21525	19485
die (s)				supplier	passivation	Silica, vitreous	60676-86-0		0.059	mg	21525	19485
die (s)				supplier	passivation	Epoxy resin	Proprietary		0.012	mg	4378	3963
die (s)				supplier	passivation	Acrylic polymer	9003-01-4		0.012	mg	4378	3963
die (s)				supplier	passivation	Carbon black	1333-86-4		0.003	mg	1094	991
die (s)				supplier	UBM	Copper (Cu)	7440-50-8		0.039	mg	1000000	12880
BUMPS	Solder	0.248	mg	supplier	bump	Tin (Sn)	7440-31-5		0.245	mg	987903	80911
BUMPS				supplier	bump	Silver (Ag)	7440-22-4		0.002	mg	8065	661
BUMPS				supplier	bump	Copper (Cu)	7440-50-8		0.001	mg	4032	330