



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 *	2013-09-30
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 *	Laurent Tosi	Representative Title	MMS MD CHAMPION
Representative Phone *	(+33) 442 685 795	Representative Email *	laurent.tosi@st.com
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
-	P71C*9I283KA	A	9989	2013-09-30
Amount	UoM	Unit type	ST ECOPACK Grade	
1.71	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		
Tin/Silver/Copper (SAC305)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape
-	1.31 x 1.12	8	NAC
Comment	Package: 1C WLCSP-R		

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	P71C*9I283KA					
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	1.1980	mg	supplier	die	Silicon (Si)	7440-21-3		1.156	mg	964942	676023
				supplier	metallization	Aluminium (Al)	7429-90-5		0.004	mg	3339	2339
				supplier	metallization	Copper (Cu)	7440-50-8		0.004	mg	3339	2339
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	835	585
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	835	585
				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.002	mg	1669	1170
				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.03	mg	25042	17544
				Supplier	Chemicals	PD-9 Resin	Proprietary		0.0137	mg	678218	8012
Polyimide Coating	Other organic materials	0.0201	mg	Supplier	Chemicals	Trifluoroacetic Anhydride	407-25-0		0.0012	mg	59406	702
				Supplier	Chemicals	Tetraethylene Glycol Dimethacrylate	109-17-1		0.0029	mg	143564	1696
				Supplier	Chemicals	4,4-Oxydiphthalic Anhydride	1823-59-2		0.0012	mg	59406	702
				Supplier	Chemicals	2-Hydroxyethyl Methacrylate	868-77-9		0.0012	mg	59406	702
				Supplier	Alloys	Titanium	7440-32-6		0.0002	mg	90909	117
RDL	Other Inorganic materials	0.0022	mg	Supplier	Alloys	Aluminum	7429-90-5		0.0019	mg	863636	1111
				Supplier	Alloys	Copper	7440-50-8		0.0001	mg	45455	58
				Supplier	Alloys	Copper (Cu)	7440-50-8		0.002	mg	645161	1170
UBM	Copper & Its Alloys	0.0031	mg	Supplier	Alloys	Titatnium	7440-32-6		0.0001	mg	32258	58
				Supplier	Alloys	Nickel	7440-02-0		0.0009	mg	290323	526
				Supplier	Alloys	Vanadium	7440-62-2		0.0001	mg	32258	58
				Supplier	Alloys	Tin	7440-31-5		0.465	mg	955807	271930
Solder Ball	Other Inorganic Materials	0.4865	mg	Supplier	Alloys	Silver	7440-22-4		0.0195	mg	40082	11404