



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 *	2013-07-24
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
-	P7(V*2I640KA	A	9989	2013-07-24
Amount	UoM	Unit type	ST ECOPACK Grade	
0.67	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	Comment	
Tin/Silver/Copper (SAC305)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
-	1.073 X 0.959	8	NAC	
Comment	Package: 1C WLCSP-R 8083125			

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	P7[V*2I640KA					
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	0.5480	mg	supplier	die	Silicon (Si)	7440-21-3		0.517	mg	943431	771642
				supplier	metallization	Aluminium (Al)	7429-90-5		0.003	mg	5474	4478
				supplier	metallization	Copper (Cu)	7440-50-8		0.003	mg	5474	4478
				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.002	mg	3650	2985
				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.023	mg	41971	34328
Polyimide Coating	Other organic materials	0.0122	mg	Supplier	Chemicals	PD-9 Resin	Proprietary		0.008	mg	656814	11940
				Supplier	Chemicals	Trifluoroacetic Anhydride	407-25-0		0.00076	mg	62397	1134
				Supplier	Chemicals	Tetraethylene Glycol Dimethacrylate	109-17-1		0.0019	mg	155993	2836
				Supplier	Chemicals	4,4-Oxydiphtalic Anhydride	1823-59-2		0.00076	mg	62397	1134
				Supplier	Chemicals	2-Hydroxyethyl Methacrylate	868-77-9		0.00076	mg	62397	1134
RDL	Other Inorganic materials	0.0012	mg	Supplier	Alloys	Titanium	7440-32-6		0.0002	mg	162602	299
				Supplier	Alloys	Aluminum	7429-90-5		0.001	mg	813008	1493
				Supplier	Alloys	Copper	7440-50-8		0.00003	mg	24390	45
UBM	Copper & Its Alloys	0.0033	mg	Supplier	Alloys	Copper (Cu)	7440-50-8		0.002	mg	606061	2985
				Supplier	Alloys	Titanium	7440-32-6		0.0003	mg	90909	448
				Supplier	Alloys	Nickel	7440-02-0		0.0009	mg	272727	1343
				Supplier	Alloys	Vanadium	7440-62-2		0.0001	mg	30303	149
Solder Ball	Other Inorganic Materials	0.1050	mg	Supplier	Alloys	Tin	7440-31-5		0.1013	mg	964762	151194
				Supplier	Alloys	Silver	7440-22-4		0.0032	mg	30476	4776