



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2014-07-31
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
Legal Statement	<p>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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
M24C16-DFCU6TP/K	P7PT*2I165KA	A	9989	2015-07-12
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.306	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	
Not Applicable ; if coating is used or other bulk termination : add in comments	Tin/Silver/Copper (Sn/Ag/Cu)	NAC		

Package Designator	Size	Nbr of instances	Shape	
BGA	0.725x0.819x0.27	4	No lead	
Comment	Package: WLCSP Ultra Thin			

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-16th June 2014				
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	P7PT*21165KA					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or Dies	Other inorganic materials	0.24600	mg	supplier	die	Silicon (Si)	7440-21-3		0.23200	mg	943089	757328
Die or Dies				supplier	metallization	Aluminium (Al)	7429-90-5		0.00100	mg	4065	3264
Die or Dies				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.00100	mg	4065	3264
Die or Dies				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.01200	mg	48780	39172
Coating-P11-HD4100	Other organic materials	0.00330	mg	Supplier	Plastics/polymers	PD-9 Resin	Proprietary		0.00225	mg	679612	7329
Coating-P11-HD4100				Supplier	Plastics/polymers	Trifluoroacetic Anhydride	407-25-0		0.00019	mg	58252	628
Coating-P11-HD4100				Supplier	Plastics/polymers	Tetraethylene Glycol Dimethacrylate	109-17-1		0.00048	mg	145631	1570
Coating-P11-HD4100				Supplier	Plastics/polymers	4,4'-Oxydiphthalic Anhydride	1823-59-2		0.00019	mg	58252	628
Coating-P11-HD4100				Supplier	Plastics/polymers	2-Hydroxyethyl Methacrylate	868-77-9		0.00019	mg	58252	628
Coating-P12-HD4100	Other organic materials	0.00294	mg	Supplier	Plastics/polymers	PD-9 Resin	Proprietary		0.00200	mg	679612	6517
Coating-P12-HD4100				Supplier	Plastics/polymers	Trifluoroacetic Anhydride	407-25-0		0.00017	mg	58252	559
Coating-P12-HD4100				Supplier	Plastics/polymers	Tetraethylene Glycol Dimethacrylate	109-17-1		0.00043	mg	145631	1397
Coating-P12-HD4100				Supplier	Plastics/polymers	4,4'-Oxydiphthalic Anhydride	1823-59-2		0.00017	mg	58252	559
Coating-P12-HD4100				Supplier	Plastics/polymers	2-Hydroxyethyl Methacrylate	868-77-9		0.00017	mg	58252	559
RDL-Ti Target	Other inorganic materials	0.00006	mg	Supplier	Alloy	Titanium	7440-32-6		0.00006	mg	1000000	212
RDL-AlCu Target	Other inorganic materials	0.00092	mg	Supplier	Alloy	Aluminium	7429-90-5		0.00089	mg	970000	2914
RDL-AlCu Target					Alloy	Copper	7440-50-8		0.00003	mg	30000	90
UBM-Ti Target	Other inorganic materials	0.00005	mg	Supplier	Alloy	Titanium	7440-32-6		0.00005	mg	1000000	150
UBM-NiV Target	Other inorganic materials	0.00033	mg	Supplier	Alloy	Nickel	7440-02-0		0.00030	mg	915000	988
UBM-NiV Target					Alloy	Vanadium	7440-62-2		0.00003	mg	85000	92
UBM-Cu Anode	Other inorganic materials	0.00073	mg	Supplier	Alloy	Copper	7440-50-8		0.00073	mg	1000000	2371
Solder Ball-SACN125	Other inorganic materials	0.05202	mg	Supplier	Alloy	Tin	7440-31-5		0.05111	mg	982500	166855
Solder Ball-SACN125				Supplier	Alloy	Silver	7440-22-4		0.00062	mg	12000	2038
Solder Ball-SACN125				Supplier	Alloy	Copper	7440-50-8		0.00026	mg	5000	849
Solder Ball-SACN125				Supplier	Alloy	Nickel	7440-02-0		0.00003	mg	500	85