



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 *	2017-02-07
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
M24C64S-FCU6T/T	P7PT*3S645TA	B	9989	2017-02-07
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.39	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	
BGA	NAC	4	No lead	
Comment	WLCSP with BSC			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
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-12th January 2017				
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*35645TA					
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	0.3310	mg	supplier	die	Silicon (Si)	7440-21-3		0.3120	mg	942598	794904
Die or Dies				supplier	metallization	Aluminium (Al)	7429-90-5		0.0020	mg	6042	5096
Die or Dies				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.0010	mg	3021	2548
Die or Dies				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.0160	mg	48338	40764
PI1-HD4100	Other inorganic materials	0.0042	mg	supplier	Plastics/polymers	PD-9 Resin	57987-55-0		0.0030	mg	714286	7643
PI1-HD4100				supplier	Plastics/polymers	Trifluoroacetic Anhydride	407-25-0		0.0002	mg	47619	510
PI1-HD4100				supplier	Plastics/polymers	Tetraethylene Glycol Dimethacrylate	109-17-1		0.0006	mg	142857	1529
PI1-HD4100				supplier	Plastics/polymers	4,4'-Oxydipthalic Anhydride	1823-59-2		0.0002	mg	47619	510
PI1-HD4100				supplier	Plastics/polymers	2-Hydroxyethyl Methacrylate	868-77-9		0.0002	mg	47619	510
PI2-HD4100	Other inorganic materials	0.0031	mg	supplier	Plastics/polymers	PD-9 Resin	57987-55-0		0.0020	mg	645161	5096
PI2-HD4100				supplier	Plastics/polymers	Trifluoroacetic Anhydride	407-25-0		0.0002	mg	64516	510
PI2-HD4100				supplier	Plastics/polymers	Tetraethylene Glycol Dimethacrylate	109-17-1		0.0005	mg	161290	1274
PI2-HD4100				supplier	Plastics/polymers	4,4'-Oxydipthalic Anhydride	1823-59-2		0.0002	mg	64516	510
PI2-HD4100				supplier	Plastics/polymers	2-Hydroxyethyl Methacrylate	868-77-9		0.0002	mg	64516	510
RDL-Ti Target	Other inorganic materials	0.0001	mg	supplier	Alloy	Titanium	7440-32-6		0.0001	mg	1000000	255
RDL-AlCu Target	Other inorganic materials	0.0008	mg	supplier	Alloy	Aluminium	7429-90-5		0.0008	mg	975610	2038
RDL-AlCu Target				supplier	Alloy	Copper	7440-50-8		0.0000	mg	24390	51
UBM-Ti Target	Other inorganic materials	0.0001	mg	supplier	Alloy	Titanium	7440-32-6		0.0001	mg	1000000	127
UBM-NiV Target	Other inorganic materials	0.0003	mg	supplier	Alloy	Nickel	7440-02-0		0.0003	mg	909091	764
UBM-NiV Target				supplier	Alloy	Vanadium	7440-62-2		0.0000	mg	90909	76
UBM-Cu Anode	Other inorganic materials	0.0010	mg	supplier	Alloy	Copper	7440-50-8		0.0010	mg	1000000	2548
Solder Ball-SACN125	Other inorganic materials	0.0519	mg	supplier	Alloy	Tin	7440-31-5		0.0510	mg	982091	129936
Solder Ball-SACN125				supplier	Alloy	Silver	7440-22-4		0.0006	mg	11554	1529
Solder Ball-SACN125				supplier	Alloy	Copper	7440-50-8		0.0003	mg	5777	764
Solder Ball-SACN125				supplier	Alloy	Nickel	7440-02-0		0.0000	mg	578	76