



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 *	2018-12-06
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	MDG MD CHAMPION	Representative Title	MDG MD 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/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
STM32L100C6U6 STM32L100C6U6TR	S6MI*416XXXV	A	998Z	2018-12-06
	Amount	UoM	Unit type	ST ECOPACK Grade
	97.66	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable; if coating is used or other bulk termination	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	7X7X0.55	48	No lead	
Comment	Package : A0B9 UFQFPN 7X7X0.55 48L 0.5 MM PITCH 8202210			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - 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
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : REACH-12th January 2017				
Query				Response
1 - Product(s) 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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	S6MI*416XXXV				6000002.0	0.0
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	M-011 Other inorganic materials	4.371	mg	supplier	die	Silicon (Si)	7440-21-3		4.049	mg	926333	41461
				supplier	metallization	Aluminium (Al)	7429-90-5		0.028	mg	6406	287
				supplier	metallization	Copper (Cu)	7440-50-8		0.093	mg	21277	952
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.011	mg	2517	113
				supplier	metallization	Titanium (Ti)	7440-32-6		0.014	mg	3203	143
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	229	10
				supplier	Passivation	Silicon Nitride	12033-89-5		0.025	mg	5720	256
				supplier	Passivation	Silicon Oxide	7631-86-9		0.150	mg	34317	1536
				Supplier	Metals	Silver	7440-22-4		0.217	mg	704535	2220
				Supplier	Plastics/polymers	Bisphenol-F, epoxy resin	9003-36-5		0.015	mg	48437	153
Die Attach Epoxy _ABLEBOND 8290_H	M-011 Other inorganic materials	0.308	mg	Supplier	Polymers	Fatty acids, polymers with epichlorohydrin	68475-94-5		0.015	mg	48437	153
				Supplier	Organic Compounds	Gamma Butyrolactone	96-48-0		0.015	mg	48437	153
				Supplier	Epoxy Resin	Epoxy Resin	Proprietary		0.015	mg	48437	153
				Supplier	Amines	Poly(Oxy(methyl-1, 2-ethanediyl)	9046-10-0		0.015	mg	48437	153
				Supplier	Metallic compounds	Copper Oxide	1317-38-0		0.015	mg	48437	153
				Supplier	Organic Compounds	1,4-Bis(2,3-epoxypropoxy) butane	2425-79-8		0.001	mg	4844	15
				Supplier	Plastics/polymers	Epoxy Resin A	Proprietary		0.739	mg	19837	7569
				Supplier	Plastics/polymers	Epoxy Resin B	Proprietary		0.739	mg	19837	7569
				Supplier	Plastics/polymers	Phenol Resin A	Proprietary		0.739	mg	19837	7569
				Supplier	Glass	Silica (Amorphous) A	60676-86-0		24.669	mg	732452	-747391
Mold Compound_EME-G770_Sumitor	M-011 Other inorganic materials	34.639	mg	Supplier	Glass	Silica (Amorphous) B	7631-86-9		6.065	mg	162767	62106
				Supplier	Metallic compounds	Metal Hydroxide	Proprietary		0.739	mg	19837	7569
				Supplier	Additives	Carbon Black	1333-86-4		0.208	mg	5595	2135
				Supplier	Metals	Gold	7440-57-5		0.769	mg	999420	7875
				Supplier	Metals	Palladium	7440-05-3		0.000	mg	520	4
				Supplier	Metals	Lanthanum	7439-91-0		0.000	mg	20	0
				Supplier	Metals	Calcium	7440-70-2		0.000	mg	40	0
				Supplier	Metals	Tin	7440-31-5		3.693	mg	1000000	37813
				Supplier	Metals	Nickel	7440-02-0		1.582	mg	29365	16201
				Supplier	Glass	Silicon	7440-21-3		0.350	mg	6500	3586
Anode Ball_Pure Tin_Nuonengda	M-011 Other inorganic materials	3.693	mg	Supplier	Metals	Magnesium	7439-95-4		0.084	mg	1565	863
				Supplier	Metals	Silver	7440-22-4		3.394	mg	63000	34757
				Supplier	Metals	Copper	7440-50-8		48.467	mg	899570	496295
				Supplier	Metals	Copper	7440-50-8		48.467	mg	899570	496295
Lead frame_C7+Ag_HDS	Copper & its alloys	53.878	mg	Supplier	Metals	Nickel	7440-02-0		1.582	mg	29365	16201
				Supplier	Glass	Silicon	7440-21-3		0.350	mg	6500	3586
				Supplier	Metals	Magnesium	7439-95-4		0.084	mg	1565	863
				Supplier	Metals	Silver	7440-22-4		3.394	mg	63000	34757