



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 *	2017-12-09
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	MDG MD CHAMPION	Representative Title	MDG MD CHAMPION
Representative Phone *	Refer to Supplier Comment section		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
STM32L162RCT6A	S75W*436XXX	A	998Z	2017-12-09
	Amount	UoM	Unit type	ST ECOPACK Grade
	356.02	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	
QFP	10X10X1.4	64	L Bend	
Comment	Package : 5W LQFP 64 10x10x1.4 1 0051434			

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	S75W*436XXX				6000001.0	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	20.396	mg	supplier	die	Silicon (Si)	7440-21-3		19.767	mg	969161	55522
				supplier	metallization	Aluminium (Al)	7429-90-5		0.055	mg	2697	154
				supplier	metallization	Copper (Cu)	7440-50-8		0.182	mg	8923	511
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.021	mg	1030	59
				supplier	metallization	Titanium (Ti)	7440-32-6		0.027	mg	1324	76
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	49	3
				supplier	Passivation	Silicon Nitride	12033-89-5		0.049	mg	2402	138
				supplier	Passivation	Silicon Oxide	7631-86-9		0.294	mg	14415	826
Die Attach Epoxy_ABLEBOND 3230_H	M-011 Other inorganic materials	1.377	mg	Supplier	Metals	Silver	7440-22-4		1.241	mg	901000	3485
				Supplier	Plastics/polymers	Highly cross-linked polymer	Proprietary		0.136	mg	99000	383
Mold Compound_EME-G631SHQ_Sur	M-011 Other inorganic materials	234.776	mg	Supplier	Plastics/polymers	Epoxy Resin A	Proprietary		5.146	mg	21000	14454
				Supplier	Plastics/polymers	Epoxy Resin B	Proprietary		5.146	mg	21000	14454
				Supplier	Plastics/polymers	Phenol Resin	Proprietary		13.723	mg	56000	38545
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		180.975	mg	780450	-491668
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		28.259	mg	115320	79375
Wire_AG Si TYPE_MKE	Bonding Wire	0.531	mg	Supplier	Non-metals	Carbon Black	1333-86-4		1.527	mg	6230	4288
				Supplier	Metals	Silver	7440-22-4		0.510	mg	960000	1432
				Supplier	Metals	Others	Proprietary		0.021	mg	40000	60
Plating anode_Pure Tin_Nuo Nengda	M-011 Other inorganic materials	1.438	mg	Supplier	Metals	Tin	7440-31-5		1.438	mg	1000000	4039
Leadframe_C194+Ag_HDS	Copper & its alloys	97.500	mg	Supplier	Metals	Iron	7439-89-6		2.132	mg	21865	5988
				Supplier	Non-metals	Phosphorus	7723-14-0		0.071	mg	730	200
				Supplier	Metals	Zinc	7440-66-6		0.110	mg	1125	308
				Supplier	Metals	Copper	7440-50-8		89.040	mg	913235	250101
				Supplier	Metals	Silver	7440-22-4		6.143	mg	63000	17253
				JIG-R	Metals	Lead	7439-92-1		0.004	mg	45	12