



## Materials Declaration Form

<b>IPC Form Type *</b>	1752 Distribute	<b>Version</b>	2
<b>Sectionals *</b>	Material Info Manufacturing Info	<b>Subsectionals *</b>	A-D

\*: Required Field

<b>Supplier Information</b>			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2017-07-11
<b>Company Unique ID</b>	NL 008751171B01		
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Contact Phone *</b>	Refer to Supplier Comment section	<b>Contact Email *</b>	Refer to Supplier Comment section
<b>Authorized Representative *</b>	MDG MD CHAMPION	<b>Representative Title</b>	MDG MD CHAMPION
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

<b>Uncertainty Statement</b>				
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<b>Legal Statement</b>				
<b>Supplier Acceptance *</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; text-align: center;">true</td> <td style="width: 40%; text-align: center;"><b>Legal Declaration *</b></td> <td style="width: 30%; text-align: center;">Standard</td> </tr> </table>	true	<b>Legal Declaration *</b>	Standard
true	<b>Legal Declaration *</b>	Standard		
<b>Legal Statement</b>	<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
STM32F207VGT6J	PG1L*411XXX2	A	9998	2017-07-11
	Amount	UoM	Unit type	ST ECOPACK Grade
	681.44	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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFP	14x14x1.4	100	L Bend	
Comment	Package : 1L LQFP 100 14x14x1.4 1 0086901			

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	PG1L*411XXX2				5999999.0	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	10.445	mg	supplier	die	Silicon (Si)	7440-21-3		9.945	mg	952130	14594
				supplier	metallization	Aluminium (Al)	7429-90-5		0.024	mg	2298	35
				supplier	metallization	Copper (Cu)	7440-50-8		0.211	mg	20201	310
				supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	96	1
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.068	mg	6510	100
				supplier	metallization	Titanium (Ti)	7440-32-6		0.003	mg	287	4
				supplier	metallization	Tungsten (W)	7440-33-7		0.002	mg	191	3
				supplier	Passivation	Silicon Nitride	12033-89-5		0.054	mg	5170	79
				supplier	Passivation	Silicon Oxide	7631-86-9		0.137	mg	13116	201
				supplier								
LEADFRAME	M-011 Other inorganic materials	132.746	mg	supplier	ALLOY	Copper (Cu)	7440-50-8		127.215	mg	958334	186686
				supplier	ALLOY	Chromium (Cr)	7440-47-3		0.385	mg	2900	565
				supplier	ALLOY	Tin (Sn)	7440-31-5		0.320	mg	2411	470
				supplier	ALLOY	Zinc (Zn)	7440-66-6		0.256	mg	1928	376
				supplier	COATING	Nickel (Ni)	7440-02-0		4.431	mg	33380	6502
				supplier	COATING	Palladium (Pd)	7440-05-3		0.094	mg	708	138
				supplier	COATING	Gold (Au)	7440-57-5		0.045	mg	339	66
DIE ATTACH	M-011 Other inorganic materials	1.878	mg	supplier	GLUE	Silver(Ag)	7440-22-4		1.315	mg	700213	1930
				supplier	GLUE	Epoxy resin A	9003-36-5		0.047	mg	25027	69
				supplier	GLUE	Epoxy resin B	Proprietary		0.094	mg	50053	138
				supplier	GLUE	Allyl compound	Proprietary		0.150	mg	79872	220
				supplier	GLUE	Silica	Proprietary		0.141	mg	75080	207
				supplier	GLUE	Diluent	Proprietary		0.131	mg	69755	192
BONDING WIRE	M-011 Other inorganic materials	1.534	mg	supplier	BONDING WIRE	Gold (Au)	7440-57-5		1.519	mg	990222	2229
				supplier	BONDING WIRE	Palladium (Pd)	7440-05-3		0.015	mg	9778	22
ENCAPSULATION	M-011 Other inorganic materials	534.078	mg	supplier	MOLDING COMPOUND	Epoxy resin	Proprietary		53.599	mg	100669	78655
				supplier	MOLDING COMPOUND	Silica (SiO3)	60676-86-0		448.320	mg	838930	342098
				supplier	MOLDING COMPOUND	Carbon Black	1333-86-4		2.680	mg	5034	3933
				supplier	MOLDING COMPOUND	Phenol Resin	Proprietary		29.479	mg	55367	43260
FINISHING	M-011 Other inorganic materials	0.759	mg	supplier	CONNECTION COATING	Nickel (Ni)	7440-02-0		0.739	mg	973650	1084
				supplier	CONNECTION COATING	Palladium (Pd)	7440-05-3		0.016	mg	21080	23
				supplier	CONNECTION COATING	Gold (Au)	7440-57-5		0.004	mg	5270	6