



## 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  <i>* : Required Field</i>


Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2022-08-12
<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>	Material Declaration champion	<b>Representative Title</b>	Material Declaration 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>		

**Uncertainty Statement**

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Legal Statement			
<b>Supplier Acceptance *</b>	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
STM32G0B1RCT7	7A5W*467XXXZ	A	998Z	2022-08-12
	Amount	UoM	Unit type	ST ECOPACK Grade
	363.06	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), immersion	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFP	10x10	64	L bend	
Comment	Package : 5W LQFP 64 10x10x1.4 1 0051434			

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 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-10 Jun 2022				
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	7ASW*467XXXZ				6000000.0	1000000.0
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	9.047	mg	Supplier	die	Silicon (Si)	7440-21-3		8.710	mg	962750	23990
				Supplier	metallization	Aluminium (Al)	7429-90-5		0.016	mg	1769	44
				Supplier	metallization	Copper (Cu)	7440-50-8		0.143	mg	15806	394
				Supplier	metallization	Tantalum (Ta)	7440-25-7		0.046	mg	5085	127
				Supplier	metallization	Titanium (Ti)	7440-32-6		0.002	mg	221	6
				Supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	111	3
				Supplier	Passivation	Silicon Nitride	12033-89-5		0.036	mg	3979	99
Attach Epoxy_3230_Henkel	M-011 Other inorganic materials	1.185	mg	Supplier	Passivation	Silicon Oxide	7631-86-9		0.093	mg	10280	256
				Supplier	Metals	Silver	7440-22-4		0.966	mg	815000	2660
				Supplier	Plastics/polymers	2,2'-(Methylenebis(phenyleneoxymethylene))	39817-09-9		0.036	mg	30000	98
				Supplier	Organic Compounds	Dihydro-3-(tetrapropenyl)furan-2,5-dione	26544-38-7		0.036	mg	30000	98
				Supplier	Organic Compounds	Epoxy resin	Proprietary		0.036	mg	30000	98
				Supplier	Organic Compounds	Dodecylloxirane	3234-28-4		0.036	mg	30000	98
				Supplier	Organic Compounds	Hexahydromethylphthalic anhydride	25550-51-0		0.036	mg	30000	98
				Supplier	Organic Compounds	Epoxy resin modifier	Proprietary		0.036	mg	30000	98
				Supplier	Metallic compounds	Copper oxide	1317-38-0		0.006	mg	5000	16
				Supplier	Plastics/polymers	Epoxy Resin A	Trade Secret		5.171	mg	21000	14243
Mold Compound_EME-G631SHQ_Sun	M-011 Other inorganic materials	246.039	mg	Supplier	Plastics/polymers	Epoxy Resin B	Trade Secret		5.171	mg	21000	14243
				Supplier	Plastics/polymers	Phenol Resin	Trade Secret		13.789	mg	56000	37980
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		191.977	mg	780450	528768
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		28.396	mg	115320	78212
				Supplier	Non-metals	Carbon Black	1333-86-4		1.534	mg	6230	4225
Wire_AUHA3_HERAUS	Bonding Wire	1.056	mg	Supplier	Metals	Gold	7440-57-5		1.056	mg	1000000	2910
Plating anode_Pure Tin_ASAMI	M-011 Other inorganic materials	1.438	mg	Supplier	Metals	Tin	7440-31-5		1.438	mg	1000000	3960
Leadframe_C194+Ag_HDS	Copper & its alloys	104.300	mg	Supplier	Metals	Copper	7440-50-8		101.400	mg	972200	279290
				Supplier	Metals	Iron	7439-89-6		2.388	mg	22900	6579
				Supplier	Metals	Zinc	7440-66-6		0.156	mg	1500	431
				Supplier	Non-Metals	Phosphorus	7723-14-0		0.031	mg	300	86
				Supplier	Metals	Silver	7440-22-4		0.323	mg	3100	891