



## Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2024-05-20
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 CHAMPION	Representative title	MDGMaterial Declaration champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	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**

Supplier acceptance*	true	Legal declaration*	Standard
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	Manufacturing site	date
STM32G051K8U6	60MG*456XXXZ	A	998Z	2024-05-20
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	50	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
3	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	0	
Package designator	Package size	Number of instances	Shape	
QFN	5x5	32	Flat	
Comment	Package : A0B8 UFQFPN 5X5X0.55 32L 0.5 MM PITCH 8202208			

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		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-23rd January 2024				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
,	0			



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	60MG*456XXXZ		50.1148		6000000.0	1000000.0				
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Die or dies	M-011 Other inorganic materials	1.665	mg	supplier	die	Silicon (Si)	7440-21-3		1.507	mg	904847	30063				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.008	mg	4728	157				
				supplier	metallization	Copper (Cu)	7440-50-8		0.067	mg	40189	1335				
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.022	mg	13002	432				
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	591	20				
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	591	20				
				supplier	Passivation	Silicon Nitride	12033-89-5		0.017	mg	10047	334				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.043	mg	26005	864				
				Glue Epoxy (EN4900GC)	Other Organic Materials	0.242	mg	supplier	Organic Compounds	Acrylic resin	Proprietary		0.017	mg	70000	338
								supplier	Organic Compounds	Polybutadiene derivative	Proprietary		0.005	mg	20000	97
supplier	Organic Compounds	Butadiene copolymer	Proprietary						0.004	mg	15000	73				
supplier	Organic Compounds	Acrylate	Proprietary						0.013	mg	54000	261				
supplier	Organic Compounds	Epoxy resin	Proprietary						0.007	mg	30000	145				
supplier	Organic Compounds	Peroxide	Proprietary						0.002	mg	8000	39				
supplier	Organic Compounds	Additive	Proprietary						0.004	mg	18000	87				
supplier	Metals	Silver	7440-22-4						0.190	mg	785000	3795				
Encapsulation (G700LALA)	Other Organic Materials	17.118	mg	supplier	Organic Compounds	Epoxy Resin	Proprietary		0.941	mg	55000	18786				
				supplier	Organic Compounds	Phenol Resin	Proprietary		0.359	mg	21000	7173				
				supplier	Glass	Silica(Amorphous)A	60676-86-0		13.694	mg	800000	273257				
				supplier	Glass	Silica(Amorphous)B	7631-86-9		2.037	mg	119000	40647				
				supplier	Organic Compounds	Carbon Black	1333-86-4		0.086	mg	5000	1708				
Bonding wire (Cu)	Bonding Wire	0.171	mg	supplier	Metals	Copper	7440-50-8		0.165	mg	965500	3291				
				supplier	Metals	Palladium	7440-05-3		0.005	mg	31000	106				
				supplier	Metals	Gold	7440-57-5		0.001	mg	3500	12				
Plating anode (Sn)	Other inorganic materials	0.719	mg	supplier	Metals	Tin	7440-31-5		0.719	mg	1000000	14346				
Leadframe (C7025 + Ag)	Copper & its alloys	30.200	mg	supplier	Metals	Copper	7440-50-8		27.698	mg	917140	552683				
				supplier	Metals	Nickel	7440-02-0		0.680	mg	22500	13559				
				supplier	Metals	Silicon	7440-21-3		0.079	mg	2600	1567				
				supplier	Metals	Magnesium	7439-95-4		0.035	mg	1150	693				
				supplier	Metals	Silver	7440-22-4		1.710	mg	56610	34114				