



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D <i>* : Required Field</i>


Supplier Information			
Company Name *	STMicroelectronics	Response Date *	25-07-2022
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 *	Material Declaration champion	Representative Title	Material Declaration 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
STM32G031C8U3 STM32G031C8U3TR	75MI*466XXXY	A	998Z	25-07-2022
	Amount	UoM	Unit type	ST ECOPACK Grade
	100.37	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	
QFN	7x7x0.55	48	flat	
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-17 Jan 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	75M1*466XXY				6000000.0	1000001.8
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	1.430	mg	supplier	die	Silicon (Si)	7440-21-3		1.290	mg	902098	12852
				supplier	metallization	Aluminium (Al)	7429-90-5		0.007	mg	4895	70
				supplier	metallization	Copper (Cu)	7440-50-8		0.059	mg	41259	588
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.019	mg	13287	189
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	699	10
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	699	10
				supplier	Passivation	Silicon Nitride	12033-89-5		0.015	mg	10490	149
				supplier	Passivation	Silicon Oxide	7631-86-9		0.038	mg	26573	379
				supplier	Metals	Silver	7440-22-4		0.416	mg	855000	4143
				Glue epoxy_8290_henkel	M-011 Other inorganic materials	0.486	mg	Supplier	Plastics/polymers	Epoxy resin 1	Trade Secret	
Supplier	Organic Compounds	Epoxy resin 2	Trade Secret						0.010	mg	20000	97
Supplier	Organic Compounds	.gamma.-Butyrolactone	96-48-0						0.015	mg	30000	145
Supplier	Organic Compounds	Epoxy resin 3	Trade Secret						0.010	mg	20000	97
Supplier	Organic Compounds	Amine	Trade Secret						0.010	mg	20000	97
Supplier	Metallic compounds	Copper oxide	1317-38-0						0.015	mg	30000	145
Supplier	Organic Compounds	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8						0.002	mg	5000	24
Supplier	Organic Compounds	Epoxy Resin A	Trade Secret						0.745	mg	21000	7418
Supplier	Organic Compounds	Epoxy Resin B	Trade Secret						0.745	mg	21000	7418
Supplier	Organic Compounds	Phenol Resin A	Trade Secret						0.745	mg	21000	7418
Encapsulation_eme-g770_sumitomo	M-011 Other inorganic materials	35.455	mg	Supplier	Glass	Silica(Amorphous)A	60676-86-0		27.671	mg	780450	275698
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		4.089	mg	115320	40737
				Supplier	Organic Compounds	Carbon Black	1333-86-4		0.221	mg	6230	2201
				Supplier	Metallic compounds	Metal Hydroxide	Trade Secret		0.496	mg	14000	4946
				Supplier	Organic Compounds	Phenol Resin B	Trade Secret		0.745	mg	21000	7418
				Supplier	Metals	Gold	7440-57-5		0.885	mg	1000000	8817
Gold Wire Au 3N Type_Mke	Bonding Wire	0.885	mg	Supplier	Metals	Gold	7440-57-5		0.885	mg	1000000	8817
Plating Anode_Pure Tin_Asahi	M-011 Other inorganic materials	1.078	mg	Supplier	Metals	Tin	7440-31-5		1.078	mg	1000000	10745
Leadframe_C7025+Ag_Hds	Copper & its alloys	61.032	mg	Supplier	Metals	Copper	7440-50-8		55.975	mg	917140	557706
				Supplier	Metals	Nickel	7440-02-0		1.373	mg	22500	13682
				Supplier	Metals	Silicon	7440-21-3		0.159	mg	2600	1581
				Supplier	Metals	Magnesium	7439-95-4		0.070	mg	1150	699
				Supplier	Metals	Silver	7440-22-4		3.455	mg	56610	34424