



Materials Declaration Form

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


Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2022-05-01
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		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	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	Mfr Site	Date
STM32L053C8U6 STM32L486VGT3TR	S2MI*417XXXX	A	998Z	2022-05-01
	Amount	UoM	Unit type	ST ECOPACK Grade
	102.49	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 - 8th July 2021				
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	SZMI*417XXX				6000000.0	999997.1
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	2.712	mg	supplier	die	Silicon (Si)	7440-21-3		2.500	mg	921829	24393
				supplier	metallization	Aluminium (Al)	7429-90-5		0.019	mg	7006	185
				supplier	metallization	Copper (Cu)	7440-50-8		0.062	mg	22861	605
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.007	mg	2581	68
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	3319	88
				supplier	Passivation	Silicon Nitride	12033-89-5		0.016	mg	5900	156
				supplier	Passivation	Silicon Oxide	7631-86-9		0.099	mg	36504	966
Glue Epoxy_8290_Henkel	M-011 Other inorganic materials	0.908	mg	Supplier	Metals	Silver	7440-22-4		0.749	mg	825000	7309
				Supplier	Organic Compounds	Epoxy resin	Trade Secret		0.018	mg	20000	177
				Supplier	Organic Compounds	Epoxy resin	Trade Secret		0.018	mg	20000	177
				Supplier	Organic Compounds	gamma-Butyrolactone	96-48-0		0.041	mg	45000	399
				Supplier	Organic Compounds	Epoxy resin	Trade Secret		0.018	mg	20000	177
				Supplier	Organic Compounds	Amine	Trade Secret		0.018	mg	20000	177
				Supplier	Metallic compounds	Copper oxide	1317-38-0		0.041	mg	45000	399
Encapsulation_EME-G770_Sumitomo	M-011 Other inorganic materials	36.098	mg	Supplier	Plastics/polymers	Epoxy Resin A	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8	0.005	mg	5000	44
				Supplier	Plastics/polymers	Epoxy Resin B	Trade Secret		0.758	mg	21000	7397
				Supplier	Plastics/polymers	Phenol Resin A	Trade Secret		0.758	mg	21000	7397
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		28.173	mg	780450	274888
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		4.163	mg	115320	40618
				Supplier	Non-metals	Carbon Black	1333-86-4		0.225	mg	6230	2194
				Supplier	Plastics/polymers	Metal Hydroxide	Trade Secret		0.505	mg	14000	4931
Wire_AG SI TYPE_MKE	Bonding Wire	0.404	mg	Supplier	Metals	Phenol Resin B	Trade Secret		0.758	mg	21000	7397
				Supplier	Metals	Silver	7440-22-4		0.388	mg	960000	3783
				Supplier	Metals	Gold	7440-57-5		0.002	mg	5000	20
				Supplier	Metals	Palladium	7440-05-3		0.012	mg	30000	118
Plating anode_Pure Tin_ASAHI	M-011 Other inorganic materials	1.078	mg	Supplier	Metals	Platinum	7440-06-4		0.002	mg	5000	20
				Supplier	Metals	Tin	7440-31-5		1.078	mg	1000000	10522
Leadframe_C7025+AG_HDS	Copper & its alloys	61.287	mg	Supplier	Metals	Copper	7440-50-8		56.209	mg	917140	548446
				Supplier	Metals	Nickel	7440-02-0		1.287	mg	21000	12558
				Supplier	Glass	Silicon	7440-21-3		0.074	mg	1210	724
				Supplier	Metals	Magnesium	7439-95-4		0.070	mg	1150	688