



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*	2024-10-28
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 : http://www.st.com/web/en/support/support.html		

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
STM32L4Q5RGT6	635W*471XXXZ	A	998Z	2024-10-28
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	348	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	
QFP	10x10	64	Gull wing	
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		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-27th June 2024				Response
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
,	#N/A			



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	635W*471XXXZ		348.4110		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	20.127	mg	supplier	die	Silicon (Si)	7440-21-3		18.350	mg	911738	52668				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.081	mg	4032	233				
				supplier	metallization	Copper (Cu)	7440-50-8		0.757	mg	37634	2174				
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.243	mg	12097	699				
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	448	26				
				supplier	metallization	Tungsten (W)	7440-33-7		0.009	mg	448	26				
				supplier	Passivation	Silicon Nitride	12033-89-5		0.189	mg	9409	544				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.487	mg	24194	1398				
				Glue epoxy (EN4900GC)	Other Organic Materials	1.005	mg	supplier	Organic Compounds	Acrylic resin	Proprietary		0.070	mg	70000	202
								supplier	Organic Compounds	Polybutadiene derivative	Proprietary		0.020	mg	20000	58
supplier	Organic Compounds	Butadiene copolymer	Proprietary						0.015	mg	15000	43				
supplier	Organic Compounds	Acrylate	Proprietary						0.054	mg	54000	156				
supplier	Organic Compounds	Epoxy resin	Proprietary						0.030	mg	30000	87				
supplier	Organic Compounds	Peroxide	Proprietary						0.008	mg	8000	23				
supplier	Organic Compounds	Additive	Proprietary						0.018	mg	18000	52				
supplier	Metals	Silver	7440-22-4						0.789	mg	785000	2264				
Encapsulation (EME-G700LAL-A)	Other Organic Materials	220.909	mg	supplier	Organic Compounds	Epoxy Resin	Proprietary		12.150	mg	55000	34873				
				supplier	Organic Compounds	Phenol Resin	Proprietary		4.639	mg	21000	13315				
				supplier	Glass	Silica(Amorphous)A	60676-86-0		176.727	mg	800000	507238				
				supplier	Glass	Silica(Amorphous)B	7631-86-9		26.288	mg	119000	75452				
				supplier	Organic Compounds	Carbon Black	1333-86-4		1.105	mg	5000	3170				
Bonding wire (Cu)	Bonding Wire	0.633	mg	supplier	Metals	Copper	7440-50-8		0.611	mg	965500	1753				
				supplier	Metals	Palladium	7440-05-3		0.020	mg	31000	56				
				supplier	Metals	Gold	7440-57-5		0.002	mg	3500	6				
Plating anode (Sn)	Other inorganic materials	1.438	mg	supplier	Metals	Tin	7440-31-5		1.438	mg	1000000	4127				
Leadframe (C7025 + Ag)	Copper & its alloys	104.300	mg	supplier	Metals	Copper	7440-50-8		101.536	mg	973499	291426				
				supplier	Metals	Iron	7439-89-6		2.377	mg	22790	6822				
				supplier	Metals	Phosphor	7723-14-0		0.026	mg	250	75				
				supplier	Metals	Zinc	7440-66-6		0.131	mg	1260	377				
				supplier	Metals	Silver	7440-22-4		0.229	mg	2200	659				
				SVHC	Metals	Lead	7439-92-1		0.000	mg	1	0				