



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 *	23-02-2023
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

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
STM32G474RCT3	7C5W*469XXX	A	998Z	23-02-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	364.23	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-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-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	7CSW*469XXXX				6000001.0	1000015.3
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	15.200	mg	supplier	die	Silicon (Si)	7440-21-3		14.612	mg	961316	40118
				supplier	metallization	Aluminium (Al)	7429-90-5		0.028	mg	1842	77
				supplier	metallization	Copper (Cu)	7440-50-8		0.249	mg	16382	684
				supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	66	3
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.081	mg	5329	222
				supplier	metallization	Titanium (Ti)	7440-32-6		0.003	mg	197	8
				supplier	metallization	Tungsten (W)	7440-33-7		0.002	mg	132	5
				supplier	Passivation	Silicon Nitride	12033-89-5		0.063	mg	4145	173
				supplier	Passivation	Silicon Oxide	7631-86-9		0.161	mg	10592	442
Glue epoxy (3230)	M-011 Other inorganic materials	2.067	mg	Supplier	Metals	Silver	7440-22-4		1.685	mg	815000	4626
				Supplier	Plastics/polymers	2,2'-(Methylenebis(phenyleneoxymethylene))t	39817-09-9		0.062	mg	30000	170
				Supplier	Organic Compounds	Dihydro-3-(tetrapropenyl)furan-2,5-dione	26544-38-7		0.062	mg	30000	170
				Supplier	Organic Compounds	Epoxy resin	Proprietary		0.062	mg	30000	170
				Supplier	Organic Compounds	Dodecylloxirane	3234-28-4		0.062	mg	30000	170
				Supplier	Organic Compounds	Hexahydromethylphthalic anhydride	25550-51-0		0.062	mg	30000	170
				Supplier	Organic Compounds	Epoxy resin modifier	Proprietary		0.062	mg	30000	170
				Supplier	Metallic compounds	Copper oxide	1317-38-0		0.010	mg	5000	28
Encapsulation (EME-G631SHQ)	M-011 Other inorganic materials	240.315	mg	Supplier	Plastics/polymers	Epoxy Resin A	Trade Secret		5.047	mg	21000	13856
				Supplier	Plastics/polymers	Epoxy Resin B	Trade Secret		5.047	mg	21000	13856
				Supplier	Plastics/polymers	Phenol Resin	Trade Secret		13.458	mg	56000	36949
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		187.554	mg	780450	514939
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		27.713	mg	115320	76088
				Supplier	Non-metals	Carbon Black	1333-86-4		1.497	mg	6230	4111
Wire (Au)	Bonding Wire	0.911	mg	Supplier	Metals	Gold	7440-57-5		0.911	mg	1000000	2501
Plating Anode (Pure Tin)	M-011 Other inorganic materials	1.438	mg	Supplier	Metals	Tin	7440-31-5		1.438	mg	1000000	3948
Leadframe (C194 + Ag)	Copper & its alloys	104.300	mg	Supplier	Metals	Copper	7440-50-8		101.400	mg	972200	278401
				Supplier	Metals	Iron	7439-89-6		2.388	mg	22900	6558
				Supplier	Metals	Zinc	7440-66-6		0.156	mg	1500	430
				Supplier	Non-Metals	Phosphorus	7723-14-0		0.031	mg	300	86
				Supplier	Metals	Silver	7440-22-4		0.323	mg	3100	888