



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 *	2022-07-06
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
STM32C031K6T7	725V*453XXXA	A	998Z	2022-07-06
	Amount	UoM	Unit type	ST ECOPACK Grade
	177.36	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 : add in comments	Tin (Sn), immersion	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFP	7x7x1.4	32	L bend	
Comment	Package : 5V LQFP 32 7x7x1.4 1 0060661			

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	725V*453XXXA				6000000.0	999998.4
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	2.573	mg	supplier	die	Silicon (Si)	7440-21-3		2.473	mg	961135	13943
				supplier	metallization	Aluminium (Al)	7429-90-5		0.005	mg	1943	28
				supplier	metallization	Copper (Cu)	7440-50-8		0.042	mg	16323	237
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.014	mg	5441	79
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	389	6
				supplier	Passivation	Silicon Nitride	12033-89-5		0.011	mg	4275	62
				supplier	Passivation	Silicon Oxide	7631-86-9		0.027	mg	10494	152
Die Attach Epoxy_3230_Henkel	M-011 Other inorganic materials	0.150	mg	Supplier	Metals	Silver	7440-22-4		0.122	mg	815000	688
				Supplier	Plastics/polymers	2,2'-(Methylenebis(phenyleneoxymethylene))	39817-09-9		0.004	mg	30000	25
				Supplier	Organic Compounds	Dihydro-3-(tetrapropenyl)furan-2,5-dione	26544-38-7		0.004	mg	30000	25
				Supplier	Organic Compounds	Epoxy resin	Proprietary		0.004	mg	30000	25
				Supplier	Organic Compounds	Dodecyloxirane	3234-28-4		0.004	mg	30000	25
				Supplier	Organic Compounds	Hexahydromethylphthalic anhydride	25550-51-0		0.004	mg	30000	25
				Supplier	Organic Compounds	Epoxy resin modifier	Proprietary		0.004	mg	30000	25
Mold Compound_EME-G631SHQ_Sun	M-011 Other inorganic materials	122.285	mg	Supplier	Metallic compounds	Copper oxide	1317-38-0		0.001	mg	5000	4
				Supplier	Plastics/polymers	Epoxy Resin A	Trade Secret		2.568	mg	21000	14479
				Supplier	Plastics/polymers	Epoxy Resin B	Trade Secret		2.568	mg	21000	14479
				Supplier	Plastics/polymers	Phenol Resin	Trade Secret		6.848	mg	56000	38610
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		95.437	mg	780450	538096
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		14.102	mg	115320	79510
				Supplier	Non-metals	Carbon Black	1333-86-4		0.762	mg	6230	4295
Wire_AUHA3_HERAUS	Bonding Wire	0.634	mg	Supplier	Metals	Gold	7440-57-5		0.634	mg	1000000	3575
Plating anode_Pure Tin_ASAHI	M-011 Other inorganic materials	0.719	mg	Supplier	Metals	Tin	7440-31-5		0.719	mg	1000000	4053
Leadframe_C194Ag_HDS	Copper & its alloys	51.000	mg	Supplier	Metals	Copper	7440-50-8		49.582	mg	972200	279555
				Supplier	Metals	Iron (Fe)	7439-89-6		1.158	mg	22700	6527
				Supplier	Metals	Zinc (Zn)	7440-66-6		0.077	mg	1500	431
				Supplier	Non-Metals	Phosphorus (P)	7723-14-0		0.015	mg	300	86
				Supplier	Metals	Silver	7440-22-4		0.166	mg	3250	935
				JIG-R	Metals	Lead	7439-92-1		0.003	mg	50	14