



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*	2024-04-22
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
STM32C031K4T7	745V*453XXXZ	A	998Z	2024-04-22
Amount	Unit of measure	Unit type	ST ECOPACK grade	
177	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	7x7	32	Gull wing	
Comment	Package : 5V LQFP 32 7x7x1.4 1 0060661			

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-23rd January 2024				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
,	0			



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document							Mfr Item Name	745V*453XXXZ		177.3608		600000.0	100000.0
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	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	
				supplier	Metals	Silver	7440-22-4		0.122	mg	815000	688	
Die Attach Epoxy_3230_Henkel	M-011 Other inorganic materials	0.150	mg	supplier	Plastics/polymers	2,2'-(Methylenebis(phenyleneoxymethylene))bisox	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	Dodecylloxirane	3234-28-4		0.004	mg	30000	25	
				SVHC	Organic Compounds	Hexahydromethylphthalic anhydride	25550-51-0		0.004	mg	30000	25	
				supplier	Organic Compounds	Epoxy resin modifier	Proprietary		0.004	mg	30000	25	
				supplier	Metallic compounds	Copper oxide	1317-38-0		0.001	mg	5000	4	
				supplier	Plastics/polymers	Epoxy Resin A	Proprietary		2.568	mg	21000	14479	
Mold Compound_EME-G631SHQ_Sumitol	M-011 Other inorganic materials	122.285	mg	supplier	Plastics/polymers	Epoxy Resin B	Proprietary		2.568	mg	21000	14479	
				supplier	Plastics/polymers	Phenol Resin	Proprietary		6.848	mg	56000	38610	
				supplier	Glass	Silica(Amorphous)A	60676-86-0		95.437	mg	780450	538097	
				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	
				supplier	Metals	Gold	7440-57-5		0.634	mg	1000000	3575	
Wire_AUHA3_HERAEUS	Bonding Wire	0.634	mg	supplier	Metals	Tin	7440-31-5		0.719	mg	1000000	4053	
Plating anode_Pure Tin_ASAHI	M-011 Other inorganic materials	0.719	mg	supplier	Metals	Copper	7440-50-8		49.582	mg	972200	279556	
Leadframe_C194+Ag_HDS	Copper & its alloys	51.000	mg	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	
				SVHC	Metals	Lead	7439-92-1		0.003	mg	50	14	