



## 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*	2024-09-30
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 : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty statement**

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.

**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
STM32U385RGT6	635W*454XXXZ	A	998Z	2024-09-30
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	360	mg	Each	ECOPACK® 3

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	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
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*454XXXZ		359.7117		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	8.722	mg	supplier	die	Silicon (Si)	7440-21-3		7.872	mg	902494	21883.93821
				supplier	metallization	Aluminium (Al)	7429-90-5		0.094	mg	10758	260.8631273
				supplier	metallization	Copper (Cu)	7440-50-8		0.280	mg	32104	778.4671723
				supplier	metallization	Nickel (Ni)	7440-02-0		0.001	mg	171	4.146457964
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.048	mg	5464	132.4926685
				supplier	metallization	Titanium (Ti)	7440-32-6		0.012	mg	1366	33.12316712
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	171	4.146457964
				supplier	Passivation	Silicon Nitride	12033-89-5		0.067	mg	7684	186.3238771
				supplier	Passivation	Silicon Oxide	7631-86-9		0.347	mg	39788	964.7910495
				supplier	Organic Compounds	Acrylic resin	Proprietary		0.036	mg	70000	99.05398943
Glue epoxy (EN4900GC)	Other Organic Materials	0.509	mg	supplier	Organic Compounds	Polybutadiene derivative	Proprietary		0.010	mg	20000	28.30113984
				supplier	Organic Compounds	Butadiene copolymer	Proprietary		0.008	mg	15000	21.22585488
				supplier	Organic Compounds	Acrylate	Proprietary		0.027	mg	54000	76.41307756
				supplier	Organic Compounds	Epoxy resin	Proprietary		0.015	mg	30000	42.45170976
				supplier	Organic Compounds	Peroxide	Proprietary		0.004	mg	8000	11.32045594
				supplier	Organic Compounds	Additive	Proprietary		0.009	mg	18000	25.47102585
				supplier	Metals	Silver	7440-22-4		0.400	mg	785000	1110.819739
				supplier	Organic Compounds	Epoxy Resin	Proprietary		13.405	mg	55000	37267.19789
Encapsulation (EME-G700LAL-A)	Other Organic Materials	243.735	mg	supplier	Organic Compounds	Phenol Resin	Proprietary		5.118	mg	21000	14229.29374
				supplier	Glass	Silica(Amorphous)A	60676-86-0		194.988	mg	800000	542068.333
				supplier	Glass	Silica(Amorphous)B	7631-86-9		29.005	mg	119000	80632.66453
				supplier	Organic Compounds	Carbon Black	1333-86-4		1.219	mg	5000	3387.927081
				supplier	Metals	Copper	7440-50-8		0.972	mg	965500	2702.969654
Bonding wire (Cu)	Bonding Wire	1.007	mg	supplier	Metals	Palladium	7440-05-3		0.031	mg	31000	86.78618259
				supplier	Metals	Gold	7440-57-5		0.004	mg	3500	9.79843997
				supplier	Metals	Tin	7440-31-5		1.438	mg	1000000	3997.255149
Plating anode (Sn)	Other inorganic materials	1.438	mg	supplier	Metals	Copper	7440-50-8		101.536	mg	973499	282270.343
				supplier	Metals	Iron	7439-89-6		2.377	mg	22790	6608.06135
				supplier	Metals	Phosphor	7723-14-0		0.026	mg	250	72.4886063
				supplier	Metals	Zinc	7440-66-6		0.131	mg	1260	365.3425757
				supplier	Metals	Silver	7440-22-4		0.229	mg	2200	637.8997354
Leadframe (C7025 + Ag)	Copper & its alloys	104.300	mg	supplier	Metals	Lead	7439-92-1		0.000	mg	1	0.289954425
				supplier	SVHC	Metals	Lead	7439-92-1		0.000	mg	1