



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*	2024-07-30
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 : http://www.st.com/web/en/support/support.html		

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
STM32C051D8Y6TR	E0KN*44CXXXA	A	997C	2024-07-30
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	4	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
1	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Tin/Silver/Copper (SAC405)	Not Applicable	NAC	0	
Package designator	Package size	Number of instances	Shape	
WLCSP	NA	14	Bulk Solder	
Comment	Package : B0Q2 WLCSP 15B DIE 44C P0.35 DM01015997			

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
,	0			



Material Composition Declaration :						Mfr Item Name	EOKN*44CXXA		3.6274		1000000.0	1000000.0
note : Substance present with less 0.001mg will not be declared in this document												
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	2.432	mg	supplier	die	Silicon (Si)	7440-21-3		2.381	mg	979021	656386
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	999	670
				supplier	metallization	Copper (Cu)	7440-50-8		0.022	mg	8991	6028
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.007	mg	2997	2009
				supplier	Passivation	Silicon Nitride	7440-32-6		0.005	mg	2248	1507
				supplier	Passivation	Silicon Oxide	7440-33-7		0.014	mg	5744	3851
BSC (LC2850)		0.142	mg	supplier	Coating film	Silica	Proprietary		0.082	mg	574000	22469
				supplier	Coating film	Epoxy resin	Proprietary		0.030	mg	213000	8338
				supplier	Coating film	Acrylic resin	Proprietary		0.030	mg	213000	8338
Solder ball (SAC405)		0.536	mg	supplier	Solder ball	Tin	7440-31-5		0.512	mg	955000	141227
				supplier	Solder ball	Silver	7440-22-4		0.021	mg	4000	5915
				supplier	Solder ball	Copper	7440-50-8		0.003	mg	5000	739
Repassivation (LTC9320)		0.063	mg	supplier	Repassivation polymer(HD4100)	Other polyamide resin	Proprietary	0.063	mg	1000000	17431	
RDL (Ti)		0.002	mg	supplier	Runner/UBM (Metal Sputter)	Titanium	7440-32-6		0.002	mg	1000000	429
RDL (Cu)		0.006	mg	supplier	Runner/UBM (Metal Sputter)	Copper	7440-50-8		0.006	mg	1000000	1690
UBM (Ti)		0.002	mg	supplier	Runner/UBM (Metal Sputter)	Titanium	7440-32-6		0.002	mg	1000000	429
UBM (Cu)		0.006	mg	supplier	Runner/UBM (Metal Sputter)	Copper	7440-50-8		0.006	mg	1000000	1690
RDL (Cu)		0.184	mg	supplier	RDL Copper	Copper	7440-50-8		0.184	mg	1000000	50708
UBM (Cu)		0.254	mg	supplier	UBM Copper	Copper	7440-50-8		0.254	mg	1000000	70146