




Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D
* : Required Field			

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	30-07-2024
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 *	MDG MD CHAMPION	Representative Title	MDG MD 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
ST33KTPM2IWLBZB1	3699*T4ABZB1	0	998N	30-07-2024
	Amount	UoM	Unit type	ST ECOPACK Grade
	4.00	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
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
SAC405	NAC	SAC405		

Package Designator	Size	Nbr of instances	Shape	
WLB	102.9*72.3*7.3	24		
Comment	Package : B0HC WLCSP DIE K460 24 B FLOW ST DM00681478			

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-14th June 2023				
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 :						Mfr Item Name	3699*T4ABZB1				7000000.0	1000033.2
note : Substance present with less 0.001mg will not be declared in this document												
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	2.070	mg	supplier	die	Silicon (Si)	7440-21-3		1.917	mg	926087	479233
				supplier	metallization	Aluminium (Al)	7429-90-5		0.018	mg	8696	4500
				supplier	metallization	Copper (Cu)	7440-50-8		0.057	mg	27536	14249
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.009	mg	4348	2250
				supplier	metallization	Titanium (Ti)	7440-32-6		0.002	mg	966	500
PI LTC9320	M-011 Other inorganic materials	0.081	mg	supplier	Passivation	Silicon Oxide	7631-86-9		0.067	mg	32367	16749
				Supplier	resists	Gamma-Butyrolactone	96-48-0		0.037	mg	450000	9148
				Supplier	resists	Tetraethylene glycol dimethacrylate	109-17-1		0.004	mg	50000	1016
				Supplier	resists	1,2-Octanedione, 1-[4-(phenylthio)phenyl]-, Z	253585-83-0		0.001	mg	12000	244
				Supplier	resists	Polyamic acid ester	Proprietary		0.028	mg	350000	7115
Ti Target: Umicore	M-011 Other inorganic materials	0.001	mg	Supplier	resists	Dimethyl sulfoxide	67-68-5		0.011	mg	138000	2805
				Supplier	Metal	Titanium	7440-32-6		0.001	mg	1000000	331
Cu Target: Umicore	M-011 Other inorganic materials	0.005	mg	Supplier	metal	Copper	7440-50-8		0.005	mg	1000000	1309
Plating Cu: RDL & UBM 8502/8540A	M-011 Other inorganic materials	0.182	mg	Supplier	plating materials	Copper	7440-50-8		0.182	mg	1000000	45568
[SAC405] Accurus	Solder Ball	1.461	mg	Supplier	solder ball	Tin (Sn)	7440-31-5		1.395	mg	955000	348763
				Supplier	solder ball	Copper (Cu)	7440-50-8		0.007	mg	5000	1826
				Supplier	solder ball	Silver (Ag)	7440-22-4		0.058	mg	40000	14608
BSC LC-86R25(25um)	M-011 Other inorganic materials	0.199	mg	Supplier	plastic/polymers	Epoxy resin	Trade Secret		0.031	mg	155000	7722
				Supplier	plastic/polymers	Acrylic ester copolymer	Trade Secret		0.054	mg	270000	13451
				Supplier	plastic/polymers	Silica	Trade Secret		0.113	mg	565500	28172
				Supplier	plastic/polymers	Pigment	Trade Secret		0.001	mg	3000	149
				Supplier	plastic/polymers	Additive	Trade Secret		0.001	mg	6500	324