




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 *	2023-09-08
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
M24256X-GCU6T/VF	P7PT*2W56BVC	A	9989	2023-09-08
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.40	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	
Tin/Silver/Copper (SAC125)	NAC	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
WLB	0.702x0.976x0.400mm	4		
Comment	Package : A0Z7 WLCSP ULTRA-THIN 8508309			

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-10 Jun 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 :						Mfr Item Name	P7PT*2W56BVC				7000001.0	999843.3
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	0.295	mg	supplier	die	Silicon (Si)	7440-21-3		0.274	mg	928814	682601
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	6780	4982
				supplier	metallization	Copper (Cu)	7440-50-8		0.006	mg	20339	14947
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.001	mg	3390	2491
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	3390	2491
				supplier	Passivation	Silicon Nitride	12033-89-5		0.002	mg	6780	4982
				supplier	Passivation	Silicon Oxide	7631-86-9		0.009	mg	30508	22421
P11 - HD4100	M-011 Other inorganic materials	0.004	mg	Supplier	Plastics/polymers	Polyamic Acid Ester	Proprietary		0.003	mg	743889	8004
				Supplier	Plastics/polymers	3,6,9-Trioxaundecamethylene dimethylacrylat	109-17-1		0.001	mg	116897	1258
				Supplier	Plastics/polymers	Methanol	67-56-1		0.000	mg	10627	114
				Supplier	Plastics/polymers	Aromatic Oxime	Proprietary		0.001	mg	116897	1258
				Supplier	Plastics/polymers	2-Hydroxyethyl methacrylate	868-77-9		0.000	mg	11690	126
P12 - HD4100	M-011 Other inorganic materials	0.006	mg	Supplier	Plastics/polymers	Polyamic Acid Ester	Proprietary		0.004	mg	743889	10746
				Supplier	Plastics/polymers	3,6,9-Trioxaundecamethylene dimethylacrylat	109-17-1		0.001	mg	116897	1689
				Supplier	Plastics/polymers	Methanol	67-56-1		0.000	mg	10627	154
				Supplier	Plastics/polymers	Aromatic Oxime	Proprietary		0.001	mg	116897	1689
				Supplier	Plastics/polymers	2-Hydroxyethyl methacrylate	868-77-9		0.000	mg	11690	169
RDL-Plated Cu	M-011 Other inorganic materials	0.006	mg	Supplier	Metals	Copper	7440-50-8		0.006	mg	1000000	15259
UBM - Plated Cu	M-011 Other inorganic materials	0.008	mg	Supplier	Metals	Copper	7440-50-8		0.008	mg	1000000	19569
Solder Ball SACN125 0.15mm	M-011 Other inorganic materials	0.052	mg	Supplier	Metals	Tin	7440-31-5		0.051	mg	972569	126663
				Supplier	Metals	Silver	7440-22-4		0.001	mg	11970	1559
				Supplier	Metals	Copper	7440-50-8		0.001	mg	15461	2014
Back Side Coat (LC2850)	M-011 Other inorganic materials	0.030	mg	Supplier	Plastics/polymers	Polyethylene terephthalate	25038-59-9		0.021	mg	702811	52471
				Supplier	Plastics/polymers	Silica	Proprietary		0.005	mg	155622	11619
				Supplier	Plastics/polymers	Release agent	Proprietary		0.000	mg	1004	75
				Supplier	Plastics/polymers	Acrylic ester co-polymer	Proprietary		0.002	mg	65261	4872
				Supplier	Plastics/polymers	Epoxy resin	Proprietary		0.002	mg	65261	4872
				Supplier	Plastics/polymers	Carbon black	Proprietary		0.000	mg	5020	375
				Supplier	Plastics/polymers	Additive	Proprietary		0.000	mg	5020	375