



Materials Declaration Form


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

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	23-03-2020
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
M24C64S-FCU6J/TF	JCPT*3S64ATA	A	996N	23-03-2020
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.42	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 DEGREES	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Tin/Silver/Copper (SAC125)	NAC	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
WLCSP	Not Applicable	4	No lead	
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-16th July 2019				
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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	JCPT*3S64ATA				7000000.0	1001334.5
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	0.317	mg	supplier	die	Silicon (Si)	7440-21-3		0.298	mg	940063	708163
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	6309	4753
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	3155	2376
				supplier	Passivation	Silicon Oxide	7631-86-9		0.016	mg	50473	38022
Polyimide	M-011 Other inorganic materials	0.011	mg	supplier	PI	Polyimide	497926-97-3		0.011	mg	1000000	25424
Sputter Layer	Metal	0.000	mg	supplier	Titanium(Ti)	Titanium(Ti)	7440-32-6		0.000	mg	1000000	336
RDL Layer	Metal	0.007	mg	supplier	Copper(Cu)	Copper(Cu)	7440-50-8		0.007	mg	1000000	16717
UBM	Metal	0.008	mg	supplier	Copper(Cu)	Copper(Cu)	7440-50-8		0.008	mg	1000000	19193
Solder Ball(98.25Sn / 1.2Ag / 0.5Cu/0	Copper Tin & its alloys	0.052	mg	supplier	Solder Ball	Solder Ball	7440-31-5		0.051	mg	987388	121241
				supplier	Solder Ball	Silver(Ag)	7440-22-4		0.001	mg	12060	1481
				supplier	Solder Ball	Copper(Cu)	7440-50-8		0.000	mg	502	62
				supplier	Solder Ball	Nickle(Ni)	7440-02-0		0.000	mg	50	6
Lamination tape(LC2824H)	M-011 Other inorganic materials	0.027	mg	supplier	Backside coating material	Polyethylene terephthalate	25038-59-9		0.009	mg	330000	20975
				supplier	Backside coating material	Silica	confidential		0.000	mg	10000	636
				supplier	Backside coating material	Silicone	9016-00-6		0.000	mg	10000	636
				supplier	Backside coating material	Silica	confidential		0.004	mg	150000	9535
				supplier	Backside coating material	Acrylic resin	confidential		0.002	mg	80000	5085
				supplier	Backside coating material	Epoxy resin	confidential		0.001	mg	50000	3178
				supplier	Backside coating material	Carbon Black	1333-86-4		0.000	mg	10000	636
				supplier	Backside coating material	Polyethylene terephthalate	25038-59-9		0.009	mg	340000	21610
supplier	Backside coating material	Silica	confidential		0.000	mg	10000	636				
supplier	Backside coating material	Silicone	9016-00-6		0.000	mg	10000	636				

