



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 *	2020-02-10
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			
<p>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.</p>			
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
M24C32S-FCU6T/TF	P7PT*3S32ATA	A	9989	2020-02-10
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.37	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
NAC	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Tin/Silver/Copper (SAC305)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
BGA	NAC	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-25th June 2020				
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	P7PT*3S32ATA				9999998.0	1000499.1
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	0.288	mg	supplier	die	Silicon (Si)	7440-21-3		0.275	mg	954861	735294
				supplier	metallization	Aluminium (Al)	7429-90-5		0.001	mg	3472	2674
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	3472	2674
				supplier	Passivation	Silicon Oxide	7631-86-9		0.011	mg	38194	29412
PI1-HD4100	M-011 Other inorganic materials	0.003	mg	supplier	Plastics/polymers	PD-9 Resin	57987-55-0		0.002	mg	714286	5772
				supplier	Plastics/polymers	Trifluoroacetic Anhydride	407-25-0		0.000	mg	47619	385
				supplier	Plastics/polymers	Tetraethylene Glycol Dimethacrylate	109-17-1		0.000	mg	142857	1154
				supplier	Plastics/polymers	4,4'-Oxydiphthalic Anhydride	1823-59-2		0.000	mg	47619	385
PI2-HD4100	M-011 Other inorganic materials	0.002	mg	supplier	Plastics/polymers	2-Hydroxyethyl Methacrylate	868-77-9		0.000	mg	47619	385
				supplier	Plastics/polymers	PD-9 Resin	57987-55-0		0.001	mg	645161	3848
				supplier	Plastics/polymers	Trifluoroacetic Anhydride	407-25-0		0.000	mg	64516	385
				supplier	Plastics/polymers	Tetraethylene Glycol Dimethacrylate	109-17-1		0.000	mg	161290	962
RDL-Ti Target	M-011 Other inorganic materials	0.000	mg	supplier	Alloy	4,4'-Oxydiphthalic Anhydride	1823-59-2		0.000	mg	64516	385
				supplier	Alloy	2-Hydroxyethyl Methacrylate	868-77-9		0.000	mg	64516	385
				supplier	Alloy	Titanium	7440-32-6		0.000	mg	1000000	267
				supplier	Alloy	Aluminium	7429-90-5		0.001	mg	975610	2138
RDL-AlCu Target	M-011 Other inorganic materials	0.001	mg	supplier	Alloy	Copper	7440-50-8		0.000	mg	24390	53
				supplier	Alloy	Titanium	7440-32-6		0.000	mg	1000000	134
				supplier	Alloy	Nickel	7440-02-0		0.000	mg	909091	802
				supplier	Alloy	Vanadium	7440-62-2		0.000	mg	90909	80
UBM-Ti Target	M-011 Other inorganic materials	0.000	mg	supplier	Alloy	Copper	7440-50-8		0.001	mg	1000000	2672
UBM-NiV Target	M-011 Other inorganic materials	0.000	mg	supplier	Alloy	Tin	7440-31-5		0.051	mg	982091	136291
				supplier	Alloy	Silver	7440-22-4		0.001	mg	11554	1603
				supplier	Alloy	Copper	7440-50-8		0.000	mg	5777	802
				supplier	Alloy	Nickel	7440-02-0		0.000	mg	578	80
Lamination tape(LC2850	M-011 Other inorganic materials	0.027	mg	supplier	Backside coating material	Polyethylene terephthalate	25038-59-9		0.009	mg	330000	23587
				supplier	Backside coating material	Silica	Un-defined		0.005	mg	170000	12151
				supplier	Backside coating material	Silicone	9016-00-6		0.001	mg	20000	1430
				supplier	Backside coating material	Acrylic resin	Un-defined		0.002	mg	80000	5718
				supplier	Backside coating material	Epoxy resin	Un-defined		0.001	mg	50000	3574
				supplier	Backside coating material	Carbon Black	1333-86-4		0.000	mg	10000	715
supplier	Backside coating material	Polyethylene terephthalate	25038-59-9		0.009	mg	340000	24302				

