

Materials Declaration Form

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

Supplier Information							
Company Name *	STMicroelectronics	Response Date *	24-07-2017				
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

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 omprehensive 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	Mfr Site	Date					
STM32L496VGY6PTR T2CG*461XXXB		А	996S	24-07-2017					
	Amount	UoM	Unit type	ST ECOPACK Grade					
	14,33	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						
1	260	3						
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life.augmented				
Tin/Silver/Copper/Nickel(SACN12 505)	NAC	NAC		me.dagmonied				

Package Designator	Size	Nbr of instances	Shape	
WLCSP	Not Applicable	100	No lead	
Comment	Package: A07D WLCSP 100L PITCH 0.4	DIE 461 DM00207851		

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 requiremen	it 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 requiremen	3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s) FALSE							
4 - Product(s) does not meet EU RoHS req	4 - Product(s) does not meet EU RoHS requirements and is not under exemptions FAL							
Exemption Id. Description								

QueryList: REACH-12th January 2017							
Query Response							
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH							
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application							

Material Composition Declara note : Substance present with	tion: less 0.001mg will not be declared in this	document				Mfr Item Name	T2CG*4	61XXXB			9000001,0	999956,3
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	10,196	mg	supplier	die	Silicon (Si)	7440-21-3		9,772	mg	958415	681783
				supplier	metallization	Aluminium (Al)	7429-90-5		0,020	mg	1962	1395
				supplier	metallization	Copper (Cu)	7440-50-8		0,180	mg	17654	12558
				supplier	metallization	Tantalum (Ta)	7440-25-7		0,058	mg	5689	4047
				supplier	metallization	Titanium (Ti)	7440-32-6		0,002	mg	196	140
				supplier	metallization	Tungsten (W)	7440-33-7		0,002	mg	196	140
				supplier	Passivation	Silicon Nitride	12033-89-5		0,046	mg	4512	3209
				supplier	Passivation	Silicon Oxide	7631-86-9		0,116	mg	11377	8093
Plating Seed layer 1	M-011 Other inorganic materials	0,012	mg	supplier	Alloy	П	7440-32-6		0,002	mg	200963	170
				supplier	Alloy	Cu	7440-50-8		0,010	mg	799037	675
Re-passivatipon layer	M-011 Other inorganic materials	0,104	mg	supplier	Polymer	4-Butyrolactone	96-48-0		0,094	mg	900000	6558
				supplier	Polymer	1-Methoxy-2-propyl acetate	108-65-6		0,010	mg	100000	729
Redistribution Layer	M-011 Other inorganic materials	0,266	mg	supplier	Alloy	Cu	7440-50-8		0,266	mg	1000000	18561
Plating Seed layer 2	M-011 Other inorganic materials	0,007	mg	supplier	Alloy	ті	7440-32-6		0,001	mg	200963	94
				supplier	Alloy	Cu	7440-50-8		0,005	mg	799037	372
Re-passivatipon layer	M-011 Other inorganic materials	0,086	mg	supplier	Polymer	4-Butyrolactone	96-48-0		0,078	mg	900000	5410
				supplier	Polymer	1-Methoxy-2-propyl acetate	108-65-6		0,009	mg	100000	601
UBM	M-011 Other inorganic materials	0,229	mg	supplier	Alloy	Cu	7440-50-8		0,229	mg	1000000	15998
Solder ball	Solder	2,995	mg	supplier	Solder	Sn	7440-31-5		2,942	mg	982500	205274
				supplier	Solder	Ag	7440-22-4		0,036	mg	12000	2507
				supplier	Solder	Cu	7440-50-8		0,015	mg	5000	1045
				supplier	Solder	Ni	7440-02-0		0,001	mg	500	104
Back Side Coating	M-011 Other inorganic materials	0,437	mg	supplier	Polymer	Polybutylene terephthalate (PBT)	25038-59-9		0,284	mg	650000	19821
				supplier	Polymer	Silica	Proprietary		0,085	mg	195000	5946
				supplier	Polymer	Proprietary Material-Other Epoxy resins	Proprietary		0,033	mg	75000	2287
				supplier	Polymer	Proprietary Material-Other Acrylic resins	Proprietary		0,033	mg	75000	2287
				supplier	Polymer	Carbon black	1333-86-4		0,002	mg	5000	152