



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 *	2021-02-11
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 *	marianna grasso	Representative Title	ADG 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 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.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STPSSL60U	3NZJ*Z72Q81U	A	9941	2021-02-11
	Amount	UoM	Unit type	ST ECOPACK Grade
	98	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	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00660189	

Package Designator	Size	Nbr of instances	Shape	
Not Applicable	4.54,3.68,2.10	2	shape	
Comment	SMB CLIP (SOD 6 NEW)			

QueryList : RoHS Directive 2011/65/EU-July 2011 Annex II amended by Delegated Directive 2015/863-March 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	FALSE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	TRUE
Exemption id.	Description
8e	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 3rd January 2020			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.04	die	388
Lead	1.74	soft solder	17796

QueryList : REACH-19th January 2021				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	1.74	Soft solder	17796
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
Lead	1000 ppm	1.744	Soft solder	920317

Responsible metals sourcing	
Query	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present is the component :	Gold, Tin, Tungsten,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	3N2I*272Q81U					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	3.596	mg	supplier	die	Silicon(Si)	7440-21-3		3.421	mg	951335	34908
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.021	mg	5840	214
				supplier	metallisation	Gold(Au)	7440-57-5		0.020	mg	5562	204
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.038	mg	10567	388
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.005	mg	1390	51
				supplier	metallisation	Tungsten(W)	7440-33-7		0.005	mg	1390	51
				supplier	passivation	Silicon oxide	7631-86-9		0.021	mg	5840	214
				supplier	polymer coating	Durimide	proprietary		0.065	mg	18076	663
				supplier	alloy & coating	Copper(Cu)	7440-50-8		39.098	mg	999335	398959
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.005	mg	128	51
Leadframe	M-004 Copper and its alloys	39.124	mg	supplier	alloy & coating	Phosphorus metal	7723-14-0		0.018	mg	460	184
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.003	mg	77	31
				supplier	alloy & coating	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	1.744	mg	920317	17796
				supplier	solder	Silver(Ag)	7440-22-4		0.047	mg	24802	480
Soft solder	Solder	1.895	mg	supplier	solder	Tin(Sn)	7440-31-5		0.094	mg	49604	959
				supplier	solder	Flux residue	proprietary		0.010	mg	5277	102
				supplier	solder	Amorphous silica	60576-86-0		38.476	mg	744966	392612
				supplier	solder	quartz	14808-60-7		0.517	mg	10010	5276
				supplier	solder	Epoxy Cresol Novolak	29690-82-2		7.747	mg	149996	79051
				supplier	solder	Phenol resin	9003-35-4		4.132	mg	80003	42163
				supplier	solder	metal hydroxide	proprietary		0.517	mg	10010	5276
				supplier	solder	phosphorus compound	un-defined		0.052	mg	1007	531
				supplier	solder	Carbon black	1333-86-4		0.307	mg	4008	2112
				supplier	solder	Tin (Sn)	7440-31-5		1.737	mg	1000000	17724
connections coating	Solder	1.737	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.737	mg	1000000	17724