



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 *	2020-06-24
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 *	Giovanni Giacobello	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
L5963Q-V0T	H9V0*UAE2AEX	A	Z7GA	2020-06-24
	Amount	UoM	Unit type	ST ECOPACK Grade
	130	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
3	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	7x7x1	48	No lead	
Comment	Package: VFQFPN 7x7x1.0 48 PITCH 0.5; MDF valid also for L5965SQ-V0Y			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 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 : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

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	0.10	die	738

QueryList : REACH-16th January 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
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				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

Material Composition Declaration :						Mfr Item Name	H9V0*UAE2AEX					
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	M-011 Other inorganic materials	10.121	mg	supplier	die	Silicon (Si)	7440-21-3		9.099	mg	899022	69991
				supplier	metallization	Aluminium (Al)	7429-90-5		0.022	mg	2174	169
				supplier	metallization	Copper (Cu)	7440-50-8		0.563	mg	55627	4331
				supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	99	8
				supplier	passivation	Nickel (Ni)	7440-02-0		0.070	mg	6916	538
				supplier	metallization	Platinum (Pt)	7440-06-4		0.039	mg	3853	300
				supplier	metallization	Titanium (Ti)	7440-32-6		0.004	mg	395	31
				supplier	metallization	Tungsten (W)	7440-33-7		0.032	mg	3162	246
				supplier	Passivation	Silicon Oxide	7631-86-9		0.140	mg	13833	1077
				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.005	mg	494	38
				supplier	back side metallization	Gold (Au)	7440-57-5		0.014	mg	1383	108
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.026	mg	2569	200
				supplier	back side metallization	Vanadium (V)	7440-62-2		0.001	mg	99	8
Leadframe	M-004 Copper and its alloys	50.582	mg	supplier	polymer die coating	Polyimide AH 1200	Proprietary		0.105	mg	10374	808
				supplier	alloy	Copper (Cu)	7440-50-8		49.213	mg	972935	378562
				supplier	alloy	Chromium (Cr)	7440-47-3		0.135	mg	2669	1038
				supplier	alloy	Tin (Sn)	7440-31-5		0.123	mg	2432	946
				supplier	alloy	Zinc (Zn)	7440-66-6		0.099	mg	1957	762
				supplier	metallization	Silver (Ag)	7440-22-4		1.012	mg	20007	7785
Die attach	M-011 Other inorganic materials	4.562	mg	supplier	glue	Silver (Ag)	7440-22-4		3.720	mg	815432	28615
				supplier	glue	(Octahydro-4,7-methano-1 H-indenediy)bis(m	42594-17-2		0.273	mg	59842	2100
				supplier	glue	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl met	7534-94-3		0.273	mg	59842	2100
				supplier	glue	Isobornyl acrylate	5888-33-5		0.273	mg	59842	2100
				supplier	glue	Bis(alpha,alpha-Dimethylbenzyl) peroxide	80-43-3		0.023	mg	5042	177
Bonding wire	M-008 Precious metals	1.921	mg	supplier	wire	Gold (Au)	7440-57-5		1.921	mg	1000000	14777
Encapsulation	M-011 Other inorganic materials	58.501	mg	supplier	mold compound	Silica, vitreous	60676-86-0		52.942	mg	904975	407246
				supplier	mold compound	Epoxy Resin	25068-38-6		2.750	mg	47008	21154
				supplier	mold compound	Phenol Resin	29960-82-2		2.750	mg	47008	21154
				supplier	mold compound	Carbon black	1333-86-4		0.059	mg	1009	454
Connection coating	M-015 Other organic materials	4.313	mg	supplier	mold compound	Tin (Sn)	7440-31-5		4.313	mg	1000000	33177