



Materials Declaration Form

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

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2019-08-02
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 *	Rossana Bonaccorso	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
STGB30H65DFB2	XDD2*JWF4R52	A	3068	2019-08-02
	Amount	UoM	Unit type	ST ECOPACK Grade
	1380	mg	Each	ECOPACK2
	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	245	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	10.2-9.15-4.5	2	gull wing	
Comment	D2PAK			

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	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 2017/2096 _November 2017	
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 28th June 2019			
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	0.15	Die - Leadframe	107
Lead	5.21	Soft solder	3772

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				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	5.21	Soft solder	3772
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	5.21	Soft solder	955046

Material Composition Declaration :						Mfr Item Name	XDD2*JWF4R52					
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)
Dies	M-011 Other inorganic materials	6.164	mg	supplier	die	Silicon (Si)	7440-21-3		5.716	mg	927335	4142
				supplier	metallization	Aluminium (Al)	7429-90-5		0.166	mg	26931	120
				supplier	Passivation	Silicon Nitride	12033-89-5		0.028	mg	4543	20
				supplier	Passivation	Silicon Oxide	7631-86-9		0.062	mg	10058	45
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.016	mg	2596	12
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.006	mg	973	4
				supplier	back side metallization	Gold (Au)	7440-57-5		0.007	mg	1136	5
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.070	mg	11356	51
				supplier	back side metallization	Vanadium (V)	7440-62-2		0.003	mg	487	2
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.033	mg	5354	24
Leadframe	M-004 Copper and its alloys	778.633	mg	supplier	alloy	Copper (Cu)	7440-50-8		777.537	mg	998592	563433
				supplier	alloy	Iron (Fe)	7439-89-6		0.779	mg	1000	564
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.234	mg	301	170
				supplier	metallization	Nickel (Ni)	7440-02-0		0.077	mg	99	56
				supplier	metallization	Phosphorus (P)	7723-14-0		0.006	mg	8	4
				supplier	metallization	Nickel (Ni)	7440-02-0		0.077	mg	99	56
Soft solder	Solder	5.450	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	5.205	mg	955046	3772
				supplier	solder	Silver (Ag)	7440-22-4		0.136	mg	24954	99
				supplier	solder	Tin (Sn)	7440-31-5		0.109	mg	20000	79
Bonding wires	M-011 Other inorganic materials	0.906	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.903	mg	996689	654
				supplier	wire	Magnesium (Mg)	7439-95-4		0.003	mg	3311	2
Encapsulation	M-011 Other inorganic materials	586.358	mg	supplier	mold compound	Silica, vitreous	60676-86-0		513.063	mg	875000	371785
				supplier	mold compound	Tetramethyl-biphenyl-diyl-bis oxymethylene-	EC 413-900-7		23.454	mg	39999	16996
				supplier	mold compound	Epoxy Resin	25068-38-6		17.591	mg	30000	12747
				supplier	mold compound	phenol resin	29690-82-2		29.318	mg	50000	21245
				supplier	mold compound	Carbon black	1333-86-4		2.932	mg	5001	2124
Connections coating	Solder	2.489	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804