



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 *	2020-09-29
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 giacopello	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
STGWA60H65DFB	TDWT*EWF7R8F	A	998G	2020-09-29
	Amount	UoM	Unit type	ST ECOPACK Grade
	6100	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
Not Applicable	Not Applicable	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00606378	

Package Designator	Size	Nbr of instances	Shape	
SIP	15.80,21.00,5.00	3	Through hole	
Comment	TO-247 LONG LEADS			

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 2020/363_ March 2020	
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	0.18	die	29

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
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

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,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

Material Composition Declaration :						Mfr Item Name	TDWT*EWF7R8F						
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	14.648	mg	supplier	die	Silicon(Si)	7440-21-3		13.206	mg	901556	2165	
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.604	mg	41234	99	
				supplier	metallisation	Gold(Au)	7440-57-5		0.012	mg	819	2	
				supplier	metallisation	Nicke(Ni)	7440-02-0		0.175	mg	11947	29	
				supplier	metallisation	Silver(Ag)	7440-22-4		0.049	mg	3345	8	
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.014	mg	956	2	
				supplier	metallisation	Vanadium(V)	7440-62-2		0.009	mg	614	1	
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.095	mg	6486	16	
				supplier	passivation	Silicon oxide	7631-86-9		0.255	mg	17409	42	
				supplier	polymer coating	Durimide	proprietary		0.229	mg	15634	38	
Leadframe	M-004 Copper and its alloys	2708.569	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		2705.048	mg	998700	443450	
				supplier	alloy & coating	Iron(Fe)	7439-89-6		1.246	mg	460	204	
				supplier	alloy & coating	Iron Phosphide(FeP)	26508-33-8		2.275	mg	840	373	
Soft solder	Solder	10.604	mg	supplier	solder	Tin(Sn)	7440-31-5	7a-Lead in high melting temper	6.893	mg	650038	1130	
				supplier	solder	Silver(Ag)	7440-22-4		2.651	mg	250000	435	
				supplier	solder	Antimony (Sb)	7440-36-0		1.060	mg	99962	174	
Bonding wires	M-003 Aluminum and its alloys	0.564	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.564	mg	1000000	92	
Encapsulation	M-011 Other inorganic materials	3359.418	mg	supplier	supplier	Silica vitreous	60676-86-0		2553.157	mg	760000	418550	
				supplier	supplier	mold compound	Epoxy Cresol Novolac	29690-82-2		520.710	mg	155000	85362
				supplier	supplier	mold compound	Phenolic resin	9003-35-4		100.783	mg	30000	16522
				supplier	supplier	mold compound	Metal hydroxide	proprietary		167.971	mg	50000	27536
connections coating	Solder	6.197	mg	supplier	supplier	Carbon black	1333-86-4		16.797	mg	5000	2754	
				supplier	solder alloy	Tin (Sn)	7440-31-5		6.197	mg	1000000	1016	