



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 *	2022-05-23
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Representative Title	ADG Material Declaration champion
Authorized Representative *	giovanni giacopello	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
SCT027W65G3-4AG	T3TM*BRF9AVF	A	998G	2022-05-23
	Amount	UoM	Unit type	ST ECOPACK Grade
	6080	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	.		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00861913	

Package Designator	Package Size	Nbr of instances	Shape	
SIP	15.80x21.00x5.00	4	Through-hole	
Comment	TO247-4			

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 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
8(e)	8(e) - Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 17th Dec 2021			
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	24.000	die - leadframe	3947
Lead	3.319	soft solder	546

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014				
Query				Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products				true
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products				false
Hazardous substance				
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE
X	O	O	O	O
Soft solder				
Homogeneous Material(s) containing Lead				

QueryList : REACH-17 Jan 2022				
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				
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
Lead	1000 ppm	3.32	Soft solder	954833

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

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update	
Query	Response
The Product does contain at least one of the substances listed in Chemical Control Act	false

China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	
Query	Response
The product contains adhesives identified under GB 33372	false

Stockholm Convention Persistent Organic Pollutants	
Query	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	T3TM*BRF9AVF					
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	5.985	mg	supplier	die	Silicium carbide	409-21-2		5.547	mg	928817	911
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.101	mg	16876	17
				supplier	metallisation	Silicon(Si)	7440-21-3		0.024	mg	4010	4
				supplier	metallisation	Copper(Cu)	7440-50-8		0.014	mg	2339	2
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.087	mg	14536	14
				supplier	metallisation	Silver(Ag)	7440-22-4		0.089	mg	14871	15
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.011	mg	1838	2
				supplier	metallisation	Vanadium(V)	7440-62-2		0.003	mg	501	0
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.016	mg	2673	3
				supplier	passivation	Silicon oxide	7631-86-9		0.027	mg	4511	4
Leadframe	M-004 Copper and its alloys	4782.465	mg	supplier	polymer coating	polyimide	proprietary		0.066	mg	11028	11
				supplier	alloy	Copper (Cu)	7440-50-8		4752.335	mg	993700	781634
				supplier	alloy	Iron(Fe)	7439-89-6		4.782	mg	1000	787
				supplier	metallization	Nickel (Ni)	7440-02-0		23.913	mg	5000	3933
				supplier	metallization	Phosphorus (P)	7723-14-0		1.435	mg	300	236
Soft solder	Solder	3.476	mg	SVHC	solder	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	3.319	mg	954833	546
				supplier	solder	Tin(Sn)	7440-31-5		0.070	mg	20138	12
				supplier	solder	Silver(Ag)	7440-22-4		0.087	mg	25029	14
Bonding wires	M-003 Aluminum and its alloys	3.858	mg	supplier	wire	Aluminium (Al)	7429-90-5		3.858	mg	1000000	635
Bonding wires 2	M-003 Aluminum and its alloys	0.965	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.965	mg	1000000	159
Encapsulation	M-011 Other inorganic materials	1240.669	mg	supplier	mold compound	Silica vitreous	60676-86-0		971.444	mg	783000	159777
				supplier	mold compound	Epoxy Cresol Novolac	29690-82-2		186.100	mg	150000	30609
				supplier	mold compound	Phenol resin	9003-35-4		62.034	mg	50000	10203
				supplier	mold compound	Triphenylphosphine	603-35-0		9.925	mg	8000	1632
				supplier	mold compound	Bismuth compound	7440-69-9		4.963	mg	4000	816
			supplier	mold compound	Carbon black	1333-86-4		6.203	mg	5000	1020	
Connections coating	Solder	42.582	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		42.582	mg	1000000	7004