



Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2022-01-10
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*	Antonella Lanzafame	Representative title	AMSMaterial Declaration 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

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	Manufacturing site	date
TSB512IYDT	1DO7*A239CEY	A	BO2A	2022-01-10
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	80	mg	Each	ECOPACK® 3

Manufacturing information			
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	
1	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	,



QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		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		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 25th Feb 2022			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			true
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			false
Substance	amount in product (mg)	Application	ppm in product

QueryList : REACH-10 Jun 2022				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
,	#N/A			
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

QueryList : Responsible metals sourcing		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,

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020		Response
The product contains adhesives identified under GB 33372		true
All the adhesive impacted complies with GB 33372		true

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



Material Composition Declaration :						Mfr Item Name	1D07*A239CEY		80.0000		5000000.0	1000004.0
note : Substance present with less 0.001mg will not be declared in this document												
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	2.099	mg	supplier	die	Silicon(Si)	7440-21-3		2.062	mg	982373	25775
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.005	mg	2382	63
				supplier	passivation	Silicon oxide	7631-86-9		0.032	mg	15245	400
Leadframe	M-004 Copper and its alloys	29.947	mg	supplier	alloy	Copper(Cu)	7440-50-8		29.125	mg	972552	364063
				supplier	alloy	Iron(Fe)	7439-89-6		0.685	mg	22874	8563
				supplier	alloy	Iron phosphide	1310-43-6		0.041	mg	1369	513
				supplier	alloy	Zinc(Zn)	7440-66-6		0.036	mg	1202	450
				supplier	metallization	Silver (Ag)	7440-22-4		0.060	mg	2004	750
Die attach	M-011 Other inorganic materials	0.300	mg	supplier	glue	Silver(Ag)	7440-22-4	0	0.264	mg	880000	3300
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.015	mg	50000	188
				supplier	glue	Isobornyl acrylate	5888-33-5		0.015	mg	50000	188
				supplier	glue	Methyl acrylate polymer	87320-05-6		0.006	mg	20000	75
Encapsulation	M-011 Other inorganic materials	46.936	mg	supplier	mold compound	Silica vitreous	60676-86-0		33.606	mg	715996	420075
				supplier	mold compound	Silicon oxide	7631-86-9		7.040	mg	149991	88000
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		3.520	mg	74996	44000
				supplier	mold compound	Phenol resin	26834-02-6		2.347	mg	50004	29338
				supplier	mold compound	Carbon black	1333-86-4		0.235	mg	5007	2938
Connections coating	Solder	0.718	mg	supplier	mold compound	Bismuth compound	7440-69-9		0.188	mg	4005	2350
				supplier	solder alloy	Tin (Sn)	7440-31-5		0.718	mg	1000000	8975