



## 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*	2024-06-21
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*	Floriana SAN BIAGIO	Representative title	APMS Material Declaration champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**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
LDL40PU50RY	1UTQ*UBHAAAX	A	997G	2024-06-21
Amount	Unit of measure	Unit type	ST ECOPACK grade	
10	mg	Each	ECOPACK® 3	

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
3	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	0	

Comment	A067 DFN 6L 2X2X 0.75 PITCH0.65 AG
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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 29th December 2023			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	0.008	die	842
Lead	0.000		0
Lead-Borate Glass	0.000		0
Lead Zirconate Titanate	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0

QueryList : REACH-23rd January 2024				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
,				



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 :	<b>Gold, Tin, Tungsten,</b>

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

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	false

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

QueryList : EUSRR Directive	Response
Product contains hazardous materials listed in EUSRR Annex II	False

PFAS/PTFE Declaration	Response
<b>QUERY</b>	<b>Response</b>
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene,Thiophenium, Triphenylsulfonium nonaflate, Trifluoroacetic anhydride	False

BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True

Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True

Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	1UTQ*UBHAAAX		9.4997		600000.0	100000.0
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	0.631	mg	supplier	die	Silicon(Si)	7440-21-3		0.528	mg	836767	5579
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.002	mg	3170	211
				supplier	metallisation	Copper(Cu)	7440-50-8		0.061	mg	96672	6421
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.008	mg	12678	842
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.002	mg	3170	211
				supplier	metallisation	Tungsten(W)	7440-33-7		0.004	mg	6339	421
				supplier	passivation	Silicon oxide	7631-86-9		0.015	mg	23772	1579
				supplier	polymer coating	polyimide	proprietary		0.011	mg	17433	1158
				supplier	alloy	Copper(Cu)	7440-50-8		3.269	mg	968021	344135
				supplier	alloy	Iron(Fe)	7439-89-6		0.082	mg	24280	8632
Leadframe	M-004 Copper and its alloys	3.377	mg	supplier	alloy	Phosphorus(P)	7723-14-0		0.001	mg	296	105
				supplier	alloy	Zinc(Zn)	7440-66-6		0.005	mg	1480	526
				supplier	metallization	Silver (Ag)	7440-22-4		0.020	mg	5922	2105
				supplier	glue	Silver(Ag)	7440-22-4		0.133	mg	815000	13998
				supplier	glue	(Octahydro-4,7-methano-1 H-indenedyl)bis(mel	42594-17-2		0.010	mg	60000	1031
Die attach	M-015 Other organic materials	0.163	mg	supplier	glue	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl metha	7534-94-3		0.010	mg	60000	1031
				supplier	glue	Isobornyl acrylate	5888-33-5		0.010	mg	60000	1031
				supplier	glue	2-(3,4-Epoxy)cyclohexyl)ethyltrimethoxysilane	3388-04-3		0.001	mg	5000	86
				supplier	wire	Copper(Cu)	7440-50-8		0.252	mg	965010	26558
				supplier	wire	Palladium(Pd)	7440-05-3		0.007	mg	24990	688
Bonding wires	M-008 Precious metals	0.261	mg	supplier	wire	Gold(Au)	7440-57-5		0.003	mg	10000	275
	Encapsulation			M-015 Other organic materials	4.575	mg	supplier	mold compound	Epoxy Resin	29690-82-2		0.229
supplier		mold compound	Phenol Resin				25068-38-6		0.124	mg	27000	13003
supplier		mold compound	Silica (Amorphous)A				60676-86-0		3.980	mg	870000	418985
supplier		mold compound	Silica (Amorphous)B				7631-86-9		0.229	mg	50000	24080
supplier		mold compound	Carbon Black				1333-86-4		0.014	mg	3000	1445
Connections coating	Solder	0.492	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.492	mg	1000000	51784