



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2021-01-19
Company Unique ID	NL 008751171B01		
Authorized Representative *	Floriana SAN BIAGIO	Representative Title	AMS Material 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

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
	77BB*MV7JBAA	B	P1C7	2021-01-19
	Amount	UoM	Unit type	ST ECOPACK Grade
	7.0	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy		
NAC	Nickel/Gold (Ni/Au), electrolytic	Copper Alloy	0	

Package Designator	Size	Nbr of instances	Shape
LGA	2 x 2	12	Flat
Comment	A03G VFLGA 2X2X0.86 12L; MDF is valid for LIS2DS12TR and LIS2DLC12TR		

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)	true
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
7c-I	7c-I-Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	
Query	Response
1 - Product(s) meets EU ELV requirement without any exemptions	false
2 - Product(s) meets EU ELV requirements by application of the selected exemption(s)	true
Exemption Id.	Description
10a	10a - Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound.

QueryList : California Prop65 list, dated 18th December 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				false
Substance	amount in product (mg)	Application	ppm in product	
Nickel	0.063	substrate	9000	
Lead	0.103	substrate	14643	
Lead-Borate Glass	0.170	substrate	24286	

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				false
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
Dies				
is Homogeneous Material containing Lead				

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 Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Homogeneous Material (mg)	Application - Homogeneous Material	ppm in Homogeneous Material
;				

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
Substance present in device Homogeneous Material				
Substance	Homogeneous Material impacted	Content in Homogeneous Material (mg)	Concentration in the material(%)	Application Purpose

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

China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020
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Query	Response
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Material Composition Declaration						Mfr Item Name	77BB'MV7JBAA		8.99%		400002.0	999855.0
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	3.060	mg	supplier	die	Silicon(Si)	7440-21-3		2.828	mg	924183	404000
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.009	mg	2941	1286
				supplier	metallisation	Copper(Cu)	7440-50-8		0.008	mg	2614	1143
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.002	mg	654	286
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.003	mg	980	429
				supplier	metallisation	Tungsten(W)	7440-33-7		0.001	mg	327	143
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-6		0.006	mg	1961	857
				supplier	passivation	Silicon Oxide	7631-86-9		0.033	mg	10784	4714
				supplier	JIG-R & California 65	Lead-Borate Glass	65997-18-4	7c-I-Electrical and electr	0.170	mg	55556	24286
				supplier		Fiber glass	85997-17-3		0.209	mg	147703	29857
Substrate	M-015 Other organic materials	1.415	mg	supplier	laminata	Bisphenol F type epoxy resin	8003-36-5		0.117	mg	82686	16714
				supplier	laminata	Bismaleimide (B)	105391-33-1		0.071	mg	50177	10143
				supplier	laminata	Triazine (T)	25722-66-1		0.070	mg	49470	10000
				supplier	laminata	Aluminium hydroxide	21645-51-2		0.005	mg	3534	714
				supplier	laminata	Zinc hydroxide	20427-58-1		0.001	mg	707	143
				supplier	laminata	Calcium sulfate	7778-18-9		0.002	mg	1413	286
				SVHC	laminata	BPA	80-05-7		0.001	mg	707	143
				supplier	laminata	Acrylic resin	9003-01-4		0.097	mg	68551	13857
				supplier	laminata	Barium sulfate	7727-43-7		0.041	mg	28975	5857
				supplier	laminata	epoxy resin	85954-11-6		0.036	mg	25442	5143
				supplier	laminata	Talc	14807-96-6		0.025	mg	17668	3571
				supplier	laminata	Aromatic hydrocarbon	64742-94-5		0.011	mg	7774	1571
				supplier	laminata	Methoxymethylethoxy propanol	34590-94-8		0.027	mg	19081	3857
				supplier	laminata	Acetate compound	112-15-2		0.027	mg	19081	3857
				supplier	laminata	DPMA	88917-22-0		0.005	mg	3534	714
				supplier	laminata	Diphenyl-trimethylbenzoyl phosphine oxide	75980-60-8		0.004	mg	2827	571
					M-004 Copper and its alloys			supplier	metallisation	Copper(Cu)	7440-50-8	
	M-006 Nickel and its alloys			supplier	metallisation	Nickel(Ni)	7440-02-0		0.063	mg	44523	9000
				supplier	metallisation	Gold(Au)	7440-57-5		0.013	mg	9187	1857
Die attach	M-015 Other organic materials	0.074	mg	supplier	tape	Epoxy resin	25068-38-6		0.046	mg	621622	6571
				supplier	tape	Polypropylene	9003-07-0		0.002	mg	27027	286
				supplier	tape	epoxy resin	28690-82-2		0.007	mg	94595	1000
				supplier	tape	Propenoate polymer	proprietary		0.015	mg	202703	2143
				supplier	tape	Bisphenol A diglycidyl ether	1675-54-3		0.004	mg	54054	571
Encapsulation	M-015 Other organic materials	2.450	mg	supplier	mold compound	Silica vitreous	60676-86-0		2.218	mg	905306	316857
				supplier	mold compound	Epoxide bisphenol A resin	25068-38-6		0.061	mg	24898	8714
				supplier	mold compound	Epoxy resin	proprietary		0.098	mg	40000	14000
				supplier	mold compound	Phenol Resin	proprietary		0.061	mg	24898	8714
				supplier	mold compound	Carbon black	1333-86-4		0.012	mg	4898	1714