



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*	2023-06-27
Authorized representative*	Patrick PERILLAT	Representative title	Group 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
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 omprehensive 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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
ST60A2G0C1D7GYO / G0I1D7GYO / F0I1D7GYO / F0C1D7GYO	GP7G*WR40DAB GP7G*WR40DIB GP7G*WR40DIF GP7G*WR40DAF	A	9994	2023-06-27
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	7.6	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
SACN125	NAC	Copper Alloy	BSA DM00916419/DM00931453/DM00931457/ BOM 1F30323



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 requirement without any exemptions		true
2 - Product(s) meets EU ELV requirements by application of the selected exemption(s)		false
Exemption Id.	Description	
,		
,		
,		

QueryList : California Prop65 list, dated 21st Apr 2023			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
Nickel	0.005		659
Lead	0.000		0
Lead-Borate Glass	0.000		0
Lead Zirconate Titanate (PZT)	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0
Gallium Arsenide	0.000		0

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014					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	
0	0	0	0	0	

QueryList : REACH-14th June 2023				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
,	0			
,	0			
,	0			



	0			
	0			
	0			
	0			

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
	0			
	0			
	0			
	0			
	0			
	0			
	0			
	0			

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 : Responsible metals sourcing			Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.			true

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

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



Material composition declaration :						Manufacturing item name	GP7G*WR40DAB GP7G*WR40DIB GP7G*WR40DIF GP7G*WR40DAF		7.5900		6000000.0	1000000.0
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	1.117	mg	supplier	die	Silicon(Si)	7440-21-3		1.049	mg	939123	138208
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.004	mg	3581	527
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.004	mg	3581	527
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.005	mg	4476	659
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	895	132
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.006	mg	5372	791
				supplier	passivation	Silicon Oxide	7631-86-9		0.021	mg	18800	2767



Bumps		0.096		supplier	bumps	Tin(Sn)	7440-31-5		0.094	mg	979166.7	12385
				supplier	bumps	Silver(Ag)	7440-22-4		0.002	mg	20833.3	264
Substrate	M-015 Other organic materials	2.149	mg	supplier	laminate	Cured thermosetting resin	Proprietary		0.578	mg	517457	76153
				supplier	laminate	Fiber glass	65997-17-3		0.578	mg	517457	76153
				supplier	laminate	Cured resin	Proprietary		0.111	mg	99373	14625
				supplier	laminate	Barium sulfate	7727-43-7		0.034	mg	30439	4480
				supplier	laminate	Silica	7631-86-9		0.018	mg	16115	2372
				supplier	laminate	Talc	14807-96-6		0.005	mg	4476	659
				supplier	laminate	Aluminium hydroxide	21645-51-2		0.001	mg	895	132
				supplier	laminate	dye	Proprietary		0.001	mg	895	132
				supplier	laminate	Misc	Proprietary		0.008	mg	7162	1054
				supplier	laminate	Copper	7440-50-8		0.863	mg	772605	113702



Encapsulation	M-015 Other organic materials	2.703	mg	supplier	Encapsulant	Silica, vitreous	60676-86-0		2.325	mg	917454	306320
				supplier	Encapsulant	Biphenyl epoxy resin	85954-11-6		0.204	mg	75472	26877
				supplier	Encapsulant	Phenol resin	Proprietary		0.121	mg	44765	15942
				supplier	Encapsulant	metal hydroxide	Proprietary		0.013	mg	4809	1713
				supplier	Encapsulant	carbon black	1333-86-4		0.027	mg	9989	3557
				supplier	Encapsulant	Miscellaneous	Proprietary		0.013	mg	4809	1713



Solder balls	Solder	1.504	mg	supplier	Solder	Tin	7440-31-5		1.477	mg	982048	194598
				supplier	Solder	Silver	7440-22-4		0.018	mg	11968	2372
				supplier	Solder	Copper	7440-50-8		0.008	mg	5319	1054
				supplier	Solder	Nickel	7440-02-0		0.001	mg	665	132