



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*	2024-07-11
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
<p>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.</p>			



Product				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
ST60A2G0C1D7GTO ST60A2G0C1D7GYO ST60A2G0I1D7GTO ST60A2G0I1D7GYO	MP7G*WR40DAB MP7G*WR40DIB	A	ZT1A	2024-07-11
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	8	mg	Each	Ecopack 2
Comment	BSA DM00916419/DM00931453/DM00931457/ BOM 1F30323			

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	NAC	Copper Alloy	BSA DM00916419/DM00931453/DM00931457/ BOM 1F30323	
Package designator	Package Size	Number of instances	Shape	
BGA	2.2x2.2	25	#N/A	
Comment	BGA			

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
QUERY		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 29th December 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	0.001	Die	133
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



QueryList : REACH-27th June 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 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				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

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

PFAS/PTFE Declaration				Response
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						Manufacturing item name	MP7G*WR40DAB MP7G*WR40DIB		7.5000		5000000.0	1000000.0
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	1.123	mg	supplier	die	Silicon(Si)	7440-21-3		0.965	mg	839761.3	125018
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.004	mg	3562	533
				supplier	metallisation	Copper(Cu)	7440-50-8		0.029	mg	25824	3867
				supplier	metallisation	Silver(Ag)	7440-22-4		0.092	mg	81923	12267
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.005	mg	4452	667
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	890	133
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.006	mg	5343	800
				supplier	passivation	Silicon Oxide	7631-86-9		0.021	mg	18700	2800
				supplier	bumps	Tin(Sn)	7440-31-5		0.094	mg	969166.7	12385
Bumps				supplier	bumps	Silver(Ag)	7440-22-4		0.002	mg	20833.3	264
				supplier	core	Cured thermosetting resin	Proprietary		0.578	mg	470000	74567
Substrate	M-015 Other organic materials	2.149	mg	supplier	core	Fiber glass	65997-17-3		0.578	mg	470000	74567
				supplier	Solder Mask	Cured resin	Proprietary		0.111	mg	96021	14800
				supplier	Solder Mask	Barium sulfate	7727-43-7		0.034	mg	29412	4533
				supplier	Solder Mask	Silica	7631-86-9		0.018	mg	15571	2400
				supplier	Solder Mask	Talc	14807-96-6		0.005	mg	4325	667
				supplier	Solder Mask	Aluminium hydroxide	21645-51-2		0.001	mg	865	133
				supplier	Solder Mask	dye	Proprietary		0.001	mg	865	133
				supplier	Solder Mask	Misc	Proprietary		0.008	mg	6920	1067
				supplier	metallisation	Copper	7440-50-8		0.836	mg	693183	107467
Encapsulation	M-015 Other organic materials	2.724	mg	supplier	Encapsulant	Silica, vitreous	60676-86-0		2.229	mg	810155	310000
				supplier	Encapsulant	Biphenyl epoxy resin	85954-11-6		0.204	mg	75472	27200
				supplier	Encapsulant	Phenol resin	Proprietary		0.121	mg	44765	16133
				supplier	Encapsulant	metal hydroxide	Proprietary		0.013	mg	4809	1733
				supplier	Encapsulant	carbon black	1333-86-4		0.027	mg	9989	3600
				supplier	Encapsulant	Misceallenous	Proprietary		0.013	mg	4809	1733
Solder balls	Solder	1.504	mg	supplier	Solder	Tin	7440-31-5		1.477	mg	274431.7	196933
				supplier	Solder	Silver	7440-22-4		0.018	mg	11968	2400
				supplier	Solder	Copper	7440-50-8		0.008	mg	5319	1067
				supplier	Solder	Nickel	7440-02-0		0.001	mg	665	133