



## 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*	2024-09-17
Authorized representative*	giovanni giacopello	Representative title	MDRF
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
<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 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.</p>			



Product				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
SR6G7C6A2C42FX0R	L2J3*FX70BDQ	A	1054	2024-09-17
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	1600.0	mg	Each	ECOPACK® 2
<b>Comment</b>	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant			

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	Not Applicable	Copper Alloy	DM01066604	
Package designator	Package Size	Number of instances	Shape	
BGA	21.3x21.3x1.8	476	Bulk solder	
<b>Comment</b>	FPBGA 21.3X21.3X1.8 476 P.8 B.55. MDF valid for CPs: SR6G7C694-G5-A0R,SR6G7C6A2C42FA0R,SR6G7C6A2C42FX0R			

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 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	0.989	Die	618

QueryList : REACH-23th January 2024				Response
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		Response
The Product does contain at least one of the substances listed in Chemical Control Act		false



<b>QueryList : Responsible metals sourcing</b>				<b>Response</b>
<b>QUERY</b>				<b>Response</b>
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.				true
<b>QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020</b>				<b>Response</b>
The product contains adhesives identified under GB 33372				false
<b>QueryList:Stockholm Convention Persistent Organic Pollutants</b>				<b>Response</b>
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I				true
<b>QueryList:EUSRR Directive</b>				<b>Response</b>
Product contains hazardous materials listed in EUSRR Annex II				False
<b>PFAS/PTFE Declaration</b>				<b>Response</b>
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene, Thiophenium, Triphenylsulfonium nonaflate, Trifluoroacetic anhydride				False
<b>BPA Declaration</b>				<b>Response</b>
Product does not contain Bisphenol A (Isopropylidenediphenol)				False
<b>Montreal Protocol</b>				<b>Response</b>
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009				True
<b>Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)</b>				<b>Response</b>
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	L2J3*FX70BDQ									
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	73.235	mg	supplier	die	Silicon(Si)	7440-21-3		66.271	mg	904908	41410				
				supplier	metallisation	Copper(Cu)	7440-50-8		3.364	mg	45934	2103				
				supplier	metallisation	GeSbTe	proprietary		0.012	mg	164	8				
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.204	mg	2786	128				
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.012	mg	164	8				
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.046	mg	628	29				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.012	mg	164	8				
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.371	mg	5066	232				
				supplier	passivation	Silicon Oxide	7631-86-9		2.943	mg	40186	1839				
				Substrate	M-015 Other organic materials	663.029	mg	supplier	laminare	Fiber glass	65997-17-3		144.657	mg	218179	90411
supplier	laminare	Epoxy resin	61788-97-4						31.427	mg	47399	19642				
supplier	laminare	Triazine (T)	25722-66-1						35.337	mg	53296	22086				
supplier	laminare	Epoxy resin	223769-10-6						11.043	mg	16655	6902				
supplier	laminare	Calcium carbonate	471-34-1						44.173	mg	66623	27608				
supplier	laminare	Amorphous silica	7631-86-9						62.374	mg	94074	38984				
supplier	laminare	Metal hydroxide	proprietary						4.969	mg	7494	3106				
SVHC	laminare	Bisphenol A	80-05-7						0.044	mg	66	28				
supplier	laminare	Oxiranemethanamine compound	110656-67-2						0.309	mg	466	193				
supplier	laminare	Bisphenol F type epoxy resin	9003-36-5						0.237	mg	357	148				
supplier	laminare	Epoxyde bisphenol A resin	25068-38-6						0.665	mg	1003	416				
supplier	laminare	Acrylic resin	9003-01-4						11.419	mg	17222	7137				
supplier	laminare	Barium sulfate	7727-43-7						1.586	mg	2392	991				
supplier	laminare	Talc	14807-96-6						0.793	mg	1196	496				
supplier	laminare	Additive	proprietary						0.476	mg	718	298				
supplier	laminare	Copper(Cu)	7440-50-8						312.740	mg	471684	195463				
M-004 Copper and its alloys	M-006 Nickel and its alloys	California 65	laminare					laminare	Nickel(Ni)	7440-02-0		0.662	mg	998	414	
			supplier					laminare	Gold(Au)	7440-57-5		0.118	mg	178	74	
Die attach-1	M-015 Other organic materials	11.472	mg					supplier	glue	Silver(Ag)	7440-22-4		9.029	mg	787047	5643
								supplier	glue	Ditrimethylpropane tetraacrylate	94108-97-1		2.065	mg	180003	1291
				supplier	glue	Diglycidyl phenyl allyl ether	EC417-470-1		0.344	mg	29986	215				
				supplier	glue	Mequinol	150-76-5		0.034	mg	2964	21				
Bonding wire	M-004 Copper and its alloys	2.065	mg	supplier	wire	Copper(Cu)	7440-50-8		1.995	mg	966102	1247				
				supplier	wire	Palladium(Pd)	7440-05-3		0.070	mg	33898	44				
Encapsulation	M-015 Other organic materials	541.722	mg	supplier	mold compound	Epoxy resin A	Proprietary		5.417	mg	9998	3386				
				supplier	mold compound	Phenol Resin	Proprietary		5.417	mg	10000	3386				
				supplier	mold compound	Metal Hydroxide	Proprietary		5.417	mg	10000	3386				
				supplier	mold compound	Epoxy resin B	1675-54-3		27.086	mg	50000	16929				
				supplier	mold compound	Silica(Amorphous) A	60676-86-0		406.292	mg	750001	253933				
				supplier	mold compound	Silica(Amorphous) B	7631-86-9		86.676	mg	160001	54173				
				supplier	mold compound	Carbon Black	1333-86-4		5.417	mg	10000	3386				
				supplier	mold compound	Tin(Sn)	7440-31-5		287.962	mg	933496	179976				
Solder balls	Solder	308.477	mg	supplier	solder alloy	Silver(Ag)	7440-22-4		11.723	mg	38003	7327				
				supplier	solder alloy	Copper(Cu)	7440-50-8		2.468	mg	8001	1543				
				California 65	solder alloy	Nickel(Ni)	7440-02-0		0.123	mg	399	77				
				supplier	solder alloy	Antimony(Sb)	7440-36-0		0.031	mg	100	19				
				supplier	solder alloy	Bismuth(Bi)	7440-69-9		6.170	mg	20001	3856				