



Materials Declaration Form

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


Supplier Information			
Company Name *	STMicroelectronics	Response Date *	29-07-2022
Company Unique ID	NL 008751171B01		
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 *	Material Declaration champion	Representative Title	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	<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				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
BLUENRG-355MT	1NM2*F1618B9	A	997G	29-07-2022
	Amount	UoM	Unit type	ST ECOPACK Grade
	36.00	mg	Each	ECOPACK® 3
	Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony		

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	Comment	
Not Applicable ; if coating is used or other bulk termination : add in comments	NiPdAuAg	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	6x6	48	flat	
Comment	Package : A0BE VFQFPN 48 6x6 PITCH 0.4 8205966			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	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 : REACH-17 Jan 2022				
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	1NM2*F1618B9				5000000.0	1000027.9				
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Die or dies	M-011 Other inorganic materials	6.516	mg	supplier	die	Silicon (Si)	7440-21-3		6.179	mg	948281	171639				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.016	mg	2455	444				
				supplier	metallization	Copper (Cu)	7440-50-8		0.143	mg	21946	3972				
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.046	mg	7060	1278				
				supplier	metallization	Titanium (Ti)	7440-32-6		0.002	mg	307	56				
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	153	28				
				supplier	Passivation	Silicon Nitride	12033-89-5		0.036	mg	5525	1000				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.093	mg	14273	2583				
				Leadframe-C194-UPG PPF	Copper & its alloys	14.089	mg	supplier	Alloy	Copper	7440-50-8		13.539	mg	961015	376097
								supplier	Alloy	Zinc	7440-66-6		0.017	mg	1230	481
supplier	Alloy	Ferrous	7439-89-6						0.326	mg	23170	9068				
supplier	Alloy	Phosphorus	7723-14-0						0.011	mg	810	317				
supplier	coating	Nickel	7440-02-0						0.180	mg	12795	5007				
supplier	coating	Palladium	7440-05-3						0.007	mg	490	192				
supplier	coating	Gold	7440-57-5						0.004	mg	275	108				
supplier	coating	Silver	7440-22-4						0.003	mg	215	84				
Die Attach-8600	M-011 Other inorganic materials	1.083	mg					supplier	Glue	Silver	7440-22-4		0.883	mg	815000	24514
								supplier	Glue	(Octahydro-4,7-methano-1H-indenediy)bis(methoxy)silane	42594-17-2		0.065	mg	60000	1805
				supplier	Glue	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3		0.065	mg	60000	1805				
				supplier	Glue	Isobornyl acrylate	5888-33-5		0.065	mg	60000	1805				
				supplier	Glue	2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane	3388-04-3		0.005	mg	5000	150				
Bonding wire -AuPdCu wire	M-011 Other inorganic materials	0.313	mg	supplier	Bonding wire	Copper	7440-50-8		0.302	mg	965000	8398				
				supplier	Bonding wire	Palladium	7440-05-3		0.008	mg	24990	217				
				supplier	Bonding wire	Gold	7440-57-5		0.003	mg	10000	87				
				supplier	Bonding wire	Silver	7440-22-4		0.000	mg	10	0				
				Encapsulation- G700LTD	M-011 Other inorganic materials	14.000	mg	supplier	Molding compound	Epoxy Resin	Trade secret		0.700	mg	50000	19445
supplier	Molding compound	Phenol Resin	Trade secret						0.378	mg	27000	10500				
supplier	Molding compound	Silica (Amorphous)A	60676-86-0						12.180	mg	870000	338336				
supplier	Molding compound	Silica (Amorphous)B	7631-86-9						0.700	mg	50000	19445				
supplier	Molding compound	Carbon Black	1333-86-4						0.042	mg	3000	1167				