




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 *	14-07-2023
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
STM32H7A3IIK6Q	Q8MR*480XXX	A	9996	14-07-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	117.71	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)		

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	
Tin/Silver/Copper (SAC305)	NAC	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
BGA	10x10	201	bulk solder	
Comment	Package : A0E7 UFBGA 10X10X0.6 176+25 P0.65 8249558			

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-10 Jun 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	Q8MR*480XXXX				6000001.0	999998.3
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	3.590	mg	supplier	die	Silicon (Si)	7440-21-3		2.945	mg	820334	25019
				supplier	metallization	Aluminium (Al)	7429-90-5		0.076	mg	21170	646
				supplier	metallization	Copper (Cu)	7440-50-8		0.240	mg	66852	2039
				supplier	metallization	Nickel (Ni)	7440-02-0		0.001	mg	279	8
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.039	mg	10864	331
				supplier	metallization	Titanium (Ti)	7440-32-6		0.007	mg	1950	59
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	279	8
				supplier	Passivation	Silicon Oxide	7631-86-9		0.281	mg	78273	2387
				supplier	core	Fibrous-Glass-Wool	65997-17-3		6.362	mg	140762	54052
				supplier	core	Formaldehyde Polymer with (Chloromethyl)Ox	28906-96-9		1.619	mg	35829	13758
SUBSTRATE (101407863)	M-011 Other inorganic materials	45.200	mg	supplier	core	Triazine	25722-66-1		1.619	mg	35829	13758
				supplier	core	Silicon dioxide	7631-86-9		3.959	mg	87581	33631
				supplier	copper foil	Copper (Cu)	7440-50-8		13.560	mg	300000	115198
				supplier	soldermask (aus320)	Cured Resin	Proprietary		7.505	mg	166033	63756
				supplier	soldermask (aus320)	Phthalocyanine Blue	147-14-8		0.020	mg	440	169
				supplier	soldermask (aus320)	Organic Pigment	Proprietary		0.020	mg	440	169
				supplier	soldermask (aus320)	Silica	Proprietary		0.050	mg	1100	422
				supplier	soldermask (aus320)	Barium sulfate	7727-43-7		2.068	mg	45742	17565
				supplier	soldermask (aus320)	Talc	14807-96-6		0.209	mg	4618	1773
				supplier	soldermask (aus320)	Antifoamer and Leveling Agent	Proprietary		0.070	mg	1539	591
				supplier	ni plating	Nickel (Ni)	7440-02-0		7.400	mg	163717	62866
				supplier	au plating	Gold (Au)	7440-57-5		0.740	mg	16372	6287
				DAF (EM-760LZ-P)	M-011 Other inorganic materials	0.586	mg	supplier	glue	Synthetic Rubber	Proprietary	
supplier	glue	Amorphous Silica	7631-86-9						0.293	mg	500000	2489
supplier	glue	Phenol Resin	Proprietary						0.059	mg	100000	498
Bonding Wire (Au)	M-011 Other inorganic materials	1.479	mg	supplier	bonding wire	Gold (Au)	7440-57-5		1.479	mg	1000000	12565
Solderballs (Sn3.5Ag)	M-011 Other inorganic materials	6.241	mg	supplier	solderball	Tin (Sn)	7440-31-5		6.023	mg	965000	51164
				supplier	solderball	Silver (Ag)	7440-22-4		0.218	mg	35000	1856
Encapsulation (GE-100LFC5)	M-011 Other inorganic materials	60.614	mg	supplier	molding compound	Solid Epoxy Resin	Proprietary		3.031	mg	50000	25747
				supplier	molding compound	Hardener	Proprietary		1.212	mg	20000	10299
				supplier	molding compound	Carbon Black	1333-86-4		0.606	mg	10000	5149
				supplier	molding compound	Metal Hydroxide	Proprietary		1.212	mg	20000	10299
				supplier	molding compound	Amorphous silica	60676-86-0		54.553	mg	900000	463449