



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 *	2022-05-08
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
STM32WL55CCU6	70MI*497XXXY	A	998Z	2022-05-08
	Amount	UoM	Unit type	ST ECOPACK Grade
	103.39	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	
Not Applicable; if coating is used or other bulk termination	Tin (Sn), immersion	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	7x7x0.55	48	flat	
Comment	Package : A0B9 UFQFPN 7X7X0.55 48L 0.5 MM PITCH 8202210			

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	70MI*497XXY				6000000.0	1000026.6
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	4.654	mg	Supplier	die	Silicon (Si)	7440-21-3		4.209	mg	904383	40710
				Supplier	metallization	Aluminium (Al)	7429-90-5		0.021	mg	4512	203
				Supplier	metallization	Copper (Cu)	7440-50-8		0.188	mg	40395	1818
				Supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	215	10
				Supplier	metallization	Tantalum (Ta)	7440-25-7		0.061	mg	13107	590
				Supplier	metallization	Titanium (Ti)	7440-32-6		0.002	mg	430	19
				Supplier	metallization	Tungsten (W)	7440-33-7		0.002	mg	430	19
				Supplier	Passivation	Silicon Nitride	12033-89-5		0.048	mg	10314	464
				Supplier	Passivation	Silicon Oxide	7631-86-9		0.122	mg	26214	1180
				Glue epoxy_en4900gr_sd	M-011 Other inorganic materials	1.557	mg	Supplier	Organic Compounds	Acrylic resin	Trade Secret	
Supplier	Organic Compounds	Polybutadiene derivative	Trade Secret						0.031	mg	20000	301
Supplier	Organic Compounds	Butadiene copolymer	Trade Secret						0.023	mg	15000	226
Supplier	Organic Compounds	Acrylate	Trade Secret						0.084	mg	54000	813
Supplier	Organic Compounds	Epoxy resin	Trade Secret						0.047	mg	30000	452
Supplier	Organic Compounds	Peroxide	Trade Secret						0.012	mg	8000	120
Supplier	Organic Compounds	Additive	Trade Secret						0.028	mg	18000	271
Supplier	Metals	Silver	7440-22-4						1.222	mg	785000	11822
Encapsulation_eme-g770_sumitomo	M-011 Other inorganic materials	34.059	mg	Supplier	Organic Compounds	Epoxy Resin A	Trade Secret		0.715	mg	21000	6918
				Supplier	Organic Compounds	Epoxy Resin B	Trade Secret		0.715	mg	21000	6918
				Supplier	Organic Compounds	Phenol Resin A	Trade Secret		0.715	mg	21000	6918
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		26.581	mg	780450	257097
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		3.928	mg	115320	37989
				Supplier	Organic Compounds	Carbon Black	1333-86-4		0.212	mg	6230	2052
				Supplier	Metallic compounds	Metal Hydroxide	Trade Secret		0.477	mg	14000	4612
				Supplier	Organic Compounds	Phenol Resin B	Trade Secret		0.715	mg	21000	6918
Gold Wire Au 3N Type_Mke	Bonding Wire	0.845	mg	Supplier	Metals	Gold	7440-57-5		0.845	mg	1000000	8170
Plating Anode_Pure Tin_Asahi	M-011 Other inorganic materials	1.078	mg	Supplier	Metals	Tin	7440-31-5		1.078	mg	1000000	10430
Leadframe_C7025+Ag_Hds	Copper & its alloys	61.200	mg	Supplier	Metals	Copper	7440-50-8		56.129	mg	917140	542884
				Supplier	Metals	Nickel	7440-02-0		1.377	mg	22500	13318
				Supplier	Metals	Silicon	7440-21-3		0.159	mg	2600	1539
				Supplier	Metals	Magnesium	7439-95-4		0.070	mg	1150	681
				Supplier	Metals	Silver	7440-22-4		3.465	mg	56610	33509