




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 *	2023-09-01
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 *	MDG MD CHAMPION	Representative Title	MDG MD 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
M95P16-IXMNT/E	PH07*5P161EC	A	3068	2023-09-01
	Amount	UoM	Unit type	ST ECOPACK Grade
	80.00	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
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SON	NAC	8	Gull Wing	
Comment	Package : 07 SO 08 .15 JEDEC 0016023			

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 :						Mfr Item Name	PHO7*5P161EC				6000000.0	999989.0
note : Substance present with less 0.001mg will not be declared in this document												
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	1.321	mg	supplier	die	Silicon (Si)	7440-21-3		1.240	mg	938683	15500
				supplier	metallization	Aluminium (Al)	7429-90-5		0.010	mg	7570	125
				supplier	metallization	Copper (Cu)	7440-50-8		0.030	mg	22710	375
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.005	mg	3785	63
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	757	13
Lead-frame	M-011 Other inorganic materials	30.315	mg	supplier	Passivation	Silicon Oxide	7631-86-9		0.035	mg	26495	438
				supplier	alloy	Copper (Cu)	7440-50-8		29.420	mg	970503	367756
				supplier	alloy	Iron (Fe)	7439-89-6		0.708	mg	23364	8853
				supplier	alloy	Zinc (Zn)	7440-66-6		0.036	mg	1195	453
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.025	mg	837	317
				supplier	coating	Nickel (Ni)	7440-02-0		0.114	mg	3761	1425
				supplier	coating	Palladium (Pd)	7440-05-3		0.007	mg	241	91
				supplier	coating	Gold (Au)	7440-57-5		0.003	mg	100	38
Die Attach	M-011 Other inorganic materials	2.460	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		2.214	mg	900000	27675
				supplier	glue or soft solder	acrylate	Proprietary		0.148	mg	60000	1845
				supplier	glue or soft solder	Methacrylate	Proprietary		0.093	mg	38000	1169
				supplier	glue or soft solder	acrylate	Proprietary		0.005	mg	2000	62
Wires	M-011 Other inorganic materials	0.062	mg	supplier	Bonding wire	Gold (Au)	7440-57-5		0.062	mg	1000000	776
Encapsulation	M-011 Other inorganic materials	45.840	mg	supplier	Moulding Compound	Epoxy Resin	Proprietary		3.178	mg	69320	39720
				supplier	Moulding Compound	Phenol Resin	Proprietary		2.118	mg	46213	26480
				supplier	Moulding Compound	Silica, vitreous	60676-86-0		40.163	mg	876149	502033
				supplier	Moulding Compound	Carbon-black	1333-86-4		0.212	mg	4621	2648
Finishing	M-011 Other inorganic materials	0.001	mg	supplier	Moulding Compound	Bismuth (Bi)	7440-69-9		0.169	mg	3697	2118
				supplier	connections coating	Nickel (Ni)	7440-02-0		0.001	mg	916800	14
				supplier	connections coating	Palladium (Pd)	7440-05-3		0.000	mg	58700	1
				supplier	connections coating	Gold (Au)	7440-57-5		0.000	mg	24500	0