



Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute		
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2020-04-08
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 *	giovanni giacopello	Representative Title	ADG 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
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Legal Statement

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.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STD25NF20	XMDP*MM2GA62	A	3068	2020-04-08
	Amount	UoM	Unit type	ST ECOPACK Grade
	330	mg	Each	ECOPACK 1
Comment	ECOPACK® or ECOPACK® 1 is STMicroelectronics trade name for ROHS compliant devices			

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	CD00403425	



Package Designator	Size	Nbr of instances	Shape	
SIP	6.50,6.10,2.30	3	gull wing	
Comment	TO 252 DPAK			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	FALSE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	TRUE
Exemption Id.	Description
8e	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 3rd January 2020			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.18	die - leadframe	533
Lead	4.12	soft solder	12497
Antimony trioxide	1.81	encapsulation	5485

QueryList : REACH-16th January 2020				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	4.12	Soft solder	12497
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
Lead	1000 ppm	4.124	Soft solder	955072

Material Composition Declaration :						Mfr Item Name	XMDP*MM2GA62					
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	M-011 Other inorganic materials	7.841	mg	supplier	die	Silicon(Si)	7440-21-3		7.582	mg	966968	22976
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.030	mg	3826	91
				supplier	metallisation	Gold(Au)	7440-57-5		0.011	mg	1403	33
				supplier	metallisation	Nicke(Ni)	7440-02-0		0.052	mg	6632	158
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.004	mg	510	12
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.020	mg	2551	61
Leadframe	M-004 Copper and its alloys	165.100	mg	supplier	passivation	Silicon oxide	7631-86-9		0.142	mg	18110	430
				supplier	alloy & coating	Copper(Cu)	7440-50-8		164.749	mg	997874	499239
				supplier	alloy & coating	Nicke(Ni)	7440-02-0		0.124	mg	751	376
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.076	mg	460	230
				supplier	alloy & coating	Iron Phosphide(FeP)	26508-33-8		0.139	mg	842	421
				supplier	alloy & coating	Phosphorus metal	7723-14-0		0.012	mg	73	36
Soft solder	Solder	4.318	mg	SVHC	solder	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	4.124	mg	955072	12497
				supplier	solder	Silver(Ag)	7440-22-4		0.108	mg	25011	327
				supplier	solder	Tin(Sn)	7440-31-5		0.086	mg	19917	261
Bonding wires	M-003 Aluminum and its alloys	0.958	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.958	mg	1000000	2903
Bonding wires 2	M-003 Aluminum and its alloys	0.120	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.119	mg	991667	361
				supplier	wire	Magnesium (Mg)	7439-95-4		0.001	mg	8333	3
Encapsulation	M-011 Other inorganic materials	150.618	mg	supplier	mold compound	Silica vitreous	60676-86-0		123.959	mg	823003	375633
				supplier	mold compound	Epoxy Cresol Novolac	29690-82-2		10.543	mg	69998	31948
				supplier	mold compound	Phenol resin	9003-35-4		6.025	mg	40002	18258
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		4.519	mg	30003	13694
				supplier	mold compound	Antimony trioxide	1309-64-4		1.807	mg	11997	5476
				supplier	mold compound	Brominated epoxy resin	40039-93-8		3.012	mg	19998	9127
				supplier	mold compound	Carbon black	1333-86-4		0.753	mg	4999	2282
connections coating	Solder	1.045	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167