



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 *	2018-02-02
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 *	Rossana Bonaccorso	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
X00619MN5AL2	EGLM*PGGM16Q	A	994X	2018-02-02
	Amount	UoM	Unit type	ST ECOPACK Grade
	110	mg	Each	ECOPACK2

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	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	6.5-3.5-1.8	4	gull wing	
Comment	SOT 223 PLANAR and TOPGLASS			

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	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)
7c-l	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

QueryList : California Prop65 list, dated 15th December 2017			
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	0.01	Die	109
Lead	1.18	Soft solder	10745
Lead-Borate Glass	0.16	Die Glass coating	1418

QueryList : REACH-15th January 2018				
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
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				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	EGLM*PGGM16Q					
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	0.976	mg	supplier	die	Silicon (Si)	7440-21-3		0.765	mg	783811	6955
				supplier	metallization	Aluminium (Al)	7429-90-5		0.027	mg	27664	245
				supplier	metallization	Gold (Au)	7440-57-5		0.003	mg	3075	27
				supplier	metallization	Nickel (Ni)	7440-02-0		0.005	mg	5123	45
				supplier	Passivation	Silicon Oxide	7631-86-9		0.007	mg	7172	64
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.004	mg	4098	36
				supplier	back side metallization	Gold (Au)	7440-57-5		0.002	mg	2049	18
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.007	mg	7172	67
Leadframe	M-004 Copper and its alloys	92.065	mg	JIG - R & California 65	glass coating	Lead-Borate Glass	65997-18-4	7c-1-Electrical and e	0.156	mg	159836	1418
				supplier	alloy	Copper (Cu)	7440-50-8		91.457	mg	993396	831427
				supplier	alloy	Iron (Fe)	7439-89-6		0.092	mg	999	836
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.028	mg	304	255
				supplier	metallization	Silver (Ag)	7440-22-4		0.488	mg	5301	4436
Soft solder	Solder	1.075	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	1.026	mg	954419	9327
				supplier	solder	Silver (Ag)	7440-22-4		0.027	mg	25116	245
				supplier	solder	Tin (Sn)	7440-31-5		0.022	mg	20465	200
				supplier	wire	Copper (Cu)	7440-50-8		0.091	mg	1000000	827
Encapsulation	M-011 Other inorganic materials	13.031	mg	supplier	mold compound	Silica, vitreous	60676-86-0		11.324	mg	869005	102945
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		1.043	mg	80040	9482
				supplier	mold compound	Phenol Resin	26834-02-6		0.521	mg	39982	4736
				supplier	mold compound	Bismuth (Bi)	7440-69-9		0.078	mg	5986	709
				supplier	mold compound	Carbon black	1333-86-4		0.065	mg	4987	591
Connections coating	Solder	2.762	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.762	mg	1000000	25109