

Legal Statement

Materials Declaration Form

IPC	1752	Mansian	
Form Type *	Distribute	version	2
Sectionals *	Material Info	Subsectionals *	A-D
	Manufacturing Info		* : Required Field
Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2019-01-14
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 *	Rossana Bonaccorso	Representative Title	ADG MD Champion
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section
Supplier Comment Uncertainty Statement	http://www.st.com/web/en/suppo	rt/support.html	
While STMicroelectronics has end STMicroelectronics disclaims all w merchantability, fitness for a part directly or indirectly, from the use	eavored to provide information which i arranties, express or implied related to icular purpose and non-infringement. S' or inability to use this document and/or	s accurate and up to date, this do this document and its contents, i T shall have no responsibility and its contents.	ocument and its contents are provided on a strict 'as is' and 'as available' ba ncluding but not limited to implied warranties of completeness, truth, accur assumes no liability for any cost, loss or damage of any kind which could a
Legal Statement			
Supplier Acceptance *	true	Legal Decla	aration * Standard
	Supplier certifies that it gathered the date that Supplier completes the date that Supplier completes the products. Company acknowledges	the provided information and this form. Supplier acknowledges that Supplier may have relied or	such information is true and correct to the best of its knowledge and belief, a that Company will rely on this certification in determining the compliance o

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 omprehensive 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					
L99H02XP	G6EH*UH49AF6	А	0959	2019-01-14					
	Amount	UoM	ST ECOPACK Grade						
	484.70	mg	ECOPACK2						
	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							
3	260	3							
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment						
NA	Tin (Sn), matte	Copper Alloy		moradginomoa					
Package Designator	Size	Nbr of instances	Shape						
QFP	10.3-7.5-2.28	36	Gull Wing						
Comment	PowerSSO36								

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	FALSE						
2 - Product(s) meets EU RoHS requirement apply)	FALSE						
3 - Product(s) meets EU RoHS requirement	TRUE						
4 - Product(s) does not meet EU RoHS req	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						
- 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.	scription					
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 25th May 2018								
Qu	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 expo	TRUE							
Substance	ppm in product							
Nickel	Die	97						
Lead	13712							

QueryList : REACH-27th June 2018								
	Response							
1 - Product(s) does not contain REACH Sul	FALSE							
CategoryLevel_Name	CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application							
Lead	ead 1000 ppm 6.65 Soft solder							
2 - Product(s) does not contain REACH definition within REACH	FALSE							
CategoryLevel_Name	ategoryLevel_Name CategoryLevel_Threshold Amount in Embedded Article / Application - Article / Homogeneous Material (mg) Material							
Lead	1000 ppm	6.65	Soft solder	975059				

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document				Mfr Item Name	G6EH*UH49AF6							
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	9.582	mg	supplier	die	Silicon (Si)	7440-21-3		9.174	mg	957420	18927
				supplier	metallization	Aluminium (Al)	7429-90-5		0.078	mg	8140	161
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	939	19
				supplier	Passivation	Silicon Nitride	12033-89-5		0.015	mg	1565	31
				supplier	Passivation	Silicon Oxide	7631-86-9		0.169	mg	17637	349
				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.005	mg	522	10
				supplier	back side metallization	Gold (Au)	7440-57-5		0.014	mg	1461	29
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.047	mg	4905	97
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.071	mg	7411	146
Leadframe	M-004 Copper and its alloys	161.654	mg	supplier	alloy	Copper (Cu)	7440-50-8		159.256	mg	985166	328566
				supplier	alloy	Iron (Fe)	7439-89-6		0.160	mg	990	330
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.048	mg	297	99
				supplier	metallization	Silver (Ag)	7440-22-4		2.190	mg	13547	4518
Soft solder	Solder	6.816	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	6.646	mg	975059	13712
				supplier	solder	Silver (Ag)	7440-22-4		0.102	mg	14965	210
				supplier	solder	Tin (Sn)	7440-31-5		0.068	mg	9976	140
Bonding wires		8.675	mg	supplier	wire	Gold (Au)	7440-57-5		8.662	mg	998501	17871
				supplier	wire	Copper (Cu)	7440-50-8		0.008	mg	922	17
				supplier	wire	Palladium (Pd)	7440-05-3		0.004	mg	461	8
				supplier	wire	Platinium (Pt)	7440-06-4		0.001	mg	116	2
Encapsulation	M-011 Other inorganic materials	293.721	mg	supplier	mold compound	silica vitreous	60676-86-0		257.888	mg	878003	532057
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		17.623	mg	59999	36359
				supplier	mold compound	Phenol Resin	205830-20-2		11.749	mg	40001	24240
				supplier	mold compound	epoxy resin	25068-38-6		5.874	mg	19999	12119
				supplier	mold compound	carbon black	1333-86-4		0.587	mg	1998	1211
Connections coating	Solder	4.252	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		4.252	mg	1000000	8772