

Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute	Version	2
Sectionals *	Material Info	Subsectionals *	A-D
	Manufacturing Info		* : Required Field
Supplier Information		- T	
Company Name *	STMicroelectronics	Response Date *	2018-08-28
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 - STMicroe http://www.st.com/web/en/suppor	electronics : rt/support.html	
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Legal Statement			
Supplier Acceptance *	true	Legal De	claration * Standard
Legal Statement	Supplier certifies that it gathered the date that Supplier completes th products. Company acknowledges	the provided information and his form. Supplier acknowledge that Supplier may have relied of	d such information is true and correct to the best of its knowledge and belief, as of es that Company will rely on this certification in determining the compliance of its on information provided by others in completing this form, and that Supplier

Product								
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date				
L9305EP	A9EH*UR5BAAP	А	0959	2018-08-28				
	Amount	UoM	Unit type	ST ECOPACK Grade				
	484.70	mg	mg Each					
	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	life gugmented				
NA	Tin (Sn), matte	Copper Alloy		morodginofiled				

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							
	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 red	FALSE						
Exemption Id.	escription						
	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							
	Response						
1 - Product(s) meets EU ELV requirements without any exemptions FALS							
2 - Product(s) meets EU RoHS requirement	TRUE						
Exemption Id.	ription						
8e	ad 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							
I - 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							
Lead	8.47	8.47 Soft solder						

QueryList : REACH-27th June 2018							
	Response						
1 - Product(s) does not contain REACH Sul	FALSE						
CategoryLevel_Name	ategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application						
Lead	1000 ppm 8.474 Soft solder						
2 - Product(s) does not contain REACH definition within REACH	FALSE						
CategoryLevel_Name	egoryLevel_Name CategoryLevel_Threshold Amount in Embedded Article / Application - Article / Homogeneous Material (mg) Material		Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material			
Lead	d 1000 ppm 8.474 Sof		Soft solder	975032			

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document				Mfr Item Name	A9EH*L	IR5BAAP						
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	13.089	mg	supplier	die	Silicon (Si)	7440-21-3		11.919	mg	910612	24590
				supplier	metallization	Copper (Cu)	7440-50-8		0.812	mg	62037	1675
				supplier	metallization	Cobalt (Co)	7440-48-4		0.001	mg	77	4
				supplier	metallization	Platinum (Pt)	7440-06-4		0.051	mg	3896	105
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	76	2
				supplier	metallization	Tungsten (W)	7440-33-7		0.038	mg	2903	78
				supplier	Passivation	Silicon Oxide	7631-86-9		0.130	mg	9932	268
				supplier	polymer die coating	Polyimide AH 1200	Proprietary		0.137	mg	10467	283
Leadframe	M-004 Copper and its alloys	161.653	mg	supplier	alloy	Copper (Cu)	7440-50-8		159.255	mg	985166	328564
				supplier	alloy	Iron (Fe)	7439-89-6		0.160	mg	990	330
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.048	mg	296	99
				supplier	metallization	Silver (Ag)	7440-22-4		2.190	mg	13548	4518
Soft solder	Solder	8.691	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	8.474	mg	975032	17483
				supplier	solder	Silver (Ag)	7440-22-4		0.130	mg	14958	268
				supplier	solder	Tin (Sn)	7440-31-5		0.087	mg	10010	179
Bonding wires	M-004 Copper and its alloys	2.870	mg	supplier	wire	Copper (Cu)	7440-50-8		2.870	mg	1000000	5923
Encapsulation	M-011 Other inorganic materials	294.145	mg	supplier	mold compound	silica vitreous	60676-86-0		258.259	mg	877999	532822
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		17.649	mg	60001	36412
				supplier	mold compound	Phenol Resin	205830-20-2		11.766	mg	40001	24275
				supplier	mold compound	epoxy resin	25068-38-6		5.883	mg	20000	12137
				supplier	mold compound	carbon black	1333-86-4		0.588	mg	1999	1213
connections coating	Solder	4.252	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		4.252	mg	1000000	8772