



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 *	2018-09-06
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 Giapello	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

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
ESDAVLC6-2BLY	AJWC*YSB4C6A	A	9955	2018-09-06
	Amount	UoM	Unit type	ST ECOPACK Grade
	8.00	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	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOT	x	3	gull wing	
Comment	SOT 23 SIMPLE DIODE			

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			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 : ELV directive : 2000/53/EC amended 2017/2096 _November 2017			
Query			Response
1 - Product(s) meets EU ELV requirements without any exemptions			TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)			FALSE
Exemption Id.	Description		

QueryList : California Prop65 list, dated 25th May 2018			
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	0.03	Leadframe	3500

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	AJWC*YSB4C6A					
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	0.303	mg	supplier	die	Silicon (Si)	7440-21-3		0.292	mg	963696	36500
				supplier	metallization	Aluminium (Al)	7429-90-5		0.006	mg	19802	750
				supplier	Passivation	Silicon Nitride	12033-89-5		0.002	mg	6601	250
				supplier	Passivation	Silicon Oxide	7631-86-9		0.003	mg	9901	375
Leadframe	M-004 Copper and its alloys	2.414	mg	supplier	alloy	Copper (Cu)	7440-50-8		2.325	mg	963132	290625
				supplier	alloy	Iron (Fe)	7439-89-6		0.054	mg	22370	6750
				supplier	alloy	Phosphorus (P)	12185-10-3		0.001	mg	414	125
				supplier	alloy	Zinc (Zn)	7440-66-6		0.003	mg	1243	375
				supplier	metallization	Nickel (Ni)	7440-02-0		0.028	mg	11599	3500
				supplier	metallization	Palladium (Pd)	7440-05-3		0.002	mg	828	250
Die attach	M-011 Other inorganic materials	0.030	mg	supplier	metallization	Gold (Au)	7440-57-5		0.001	mg	414	125
				supplier	glue	Epoxyde Bisphenol A Resin	25068-38-6		0.003	mg	100000	375
				supplier	glue	Silica, vitreous	60676-86-0		0.009	mg	300000	1125
				supplier	glue	Ethoxyethoxy-ethyl Acetate	112-15-2		0.006	mg	200000	750
				supplier	glue	Aluminium oxide	1344-28-1		0.006	mg	200000	750
				supplier	glue	Bisphenol A diglycidyl ether polymer	25036-25-3		0.004	mg	133334	500
				supplier	glue	Glycol ether ester	Proprietary		0.001	mg	33333	125
				supplier	glue	Diaminodiphenylsulfone	80-08-0		0.001	mg	33333	125
Bonding wire	M-004 Copper and its alloys	0.031	mg	supplier	wire	Copper (Cu)	7440-50-8		0.030	mg	967742	3750
				supplier	wire	Palladium (Pd)	7440-05-3		0.001	mg	22258	125
Encapsulation	M-011 Other inorganic materials	5.222	mg	supplier	mold compound	silica vitreous	60676-86-0		4.457	mg	853504	557125
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		0.286	mg	54768	35750
				supplier	mold compound	Phenol Resin	26834-02-6		0.261	mg	49981	32625
				supplier	mold compound	Tetrakis(2,6-dimethylphenyl) 1,3-phenylene bis	139189-30-3		0.130	mg	24895	16250
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.078	mg	14937	9750
				supplier	mold compound	Carbon black	1333-86-4		0.010	mg	1915	1250