



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 *	2020-03-11
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 Giacobello	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
STPS0540ZY	AJUF*AHBY104	A	9955	2020-03-11
	Amount	UoM	Unit type	ST ECOPACK Grade
	9	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	Nickel/Palladium/Gold (Ni/Pd/Au)	Alloy 42	CD00261583	

Package Designator	Size	Nbr of instances	Shape	
DIP	2.55 - 1.4 - 1.45	2	gull wing	
Comment	SOD 123 2L 1.0mm			

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 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	1.05	die - leadframe	117000

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				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 :						Mfr Item Name	AJUF*AHBY104					
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	0.559	mg	supplier	die	Silicon(Si)	7440-21-3		0.548	mg	980322	60889
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.004	mg	7155	446
				supplier	metallisation	Gold(Au)	7440-57-5		0.001	mg	1789	111
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	1789	111
				supplier	metallisation	Tungsten(W)	7440-33-7		0.001	mg	1789	111
				supplier	passivation	Silicon oxide	7631-86-9		0.004	mg	7156	444
Leadframe	M-002 Other ferrous alloys, non-stainless steels	2.632	mg	supplier	alloy & coating	Nickel(Ni)	7440-02-0		1.053	mg	400076	117000
				supplier	alloy & coating	Iron(Fe)	7439-89-6		1.480	mg	562310	164444
				supplier	alloy & coating	Silicon(Si)	7440-21-3		0.003	mg	1140	333
				supplier	alloy & coating	Chromium (Cr)	7440-47-3		0.003	mg	1140	333
				supplier	alloy & coating	Silver (Ag)	7440-22-4		0.078	mg	29635	8667
				supplier	alloy & coating	Manganese (Mn)	7439-96-5		0.015	mg	5699	1667
Bonding wires	M-008 Precious metals	0.024	mg	supplier	wire	Gold (Au)	7440-57-5		0.024	mg	1000000	2667
Encapsulation	M-011 Other inorganic materials	5.602	mg	supplier	mold compound	Silica vitreous	60676-86-0		4.779	mg	853088	531000
				supplier	mold compound	Epoxy Cresol Novolac	29690-82-2		0.308	mg	54980	34222
				supplier	mold compound	Phenol Resin	26834-02-6		0.280	mg	49982	31111
				supplier	mold compound	Tetrakis(2,6-dimethylphenyl) 1,3-phenylene b	139189-30-3		0.140	mg	24991	15556
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.084	mg	14995	9333
				supplier	mold compound	Carbon black	1333-86-4		0.011	mg	1964	1222
connections coating	Solder	0.183	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.183	mg	1000000	20333