



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2020-08-17
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 - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.


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
STPST10H100SF	3A7R*03VE850	A	996I	2020-08-17
	Amount	UoM	Unit type	ST ECOPACK Grade
	90	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	
CHP	6.10,4.40,1.10	3	flat	
Comment	PSMC-3L-EP			

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	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)

QueryList : ELV directive : 2000/53/EC amended 2017/2096 _November 2017	
Query	Response
1 - 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.	Description
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 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	0.04	die - leadframe	422
Lead	1.76	soft solder	19511

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				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	1.76	Soft solder	19511
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				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
Lead	1000 ppm	1.756	Soft solder	925184

Material Composition Declaration :						Mfr Item Name	3A7R*03VE850					
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	2.611	mg	supplier	die	Silicon(Si)	7440-21-3		2.444	mg	936039	27158
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.021	mg	8043	233
				supplier	metallisation	Gold(Au)	7440-57-5		0.020	mg	7660	222
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.038	mg	14554	422
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.002	mg	766	22
				supplier	passivation	Silicon oxide	7631-86-9		0.021	mg	8043	233
				supplier	polymer coating	Durimide	proprietary		0.065	mg	24895	722
Leadframe	M-004 Copper and its alloys	36.561	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		35.483	mg	970515	394256
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.950	mg	25984	10556
				supplier	alloy & coating	Phosphorus metal	7723-14-0		0.055	mg	1504	611
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.073	mg	1997	811
				SVHC	solder	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	1.756	mg	925184	19511
Soft solder	Solder	1.898	mg	supplier	solder	Tin(Sn)	7440-31-5		0.095	mg	50053	1056
				supplier	solder	Silver(Ag)	7440-22-4		0.047	mg	24763	522
				supplier	mold compound	Amorphous Silica	60676-86-0		30.819	mg	799974	342433
				supplier	mold compound	Solid Epoxy Resin 1	223769-10-6		2.119	mg	55003	23544
				supplier	mold compound	Solid Epoxy Resin 2	85954-11-6		3.274	mg	84984	36378
Encapsulation	M-011 Other inorganic materials	38.525	mg	supplier	mold compound	Phenol Resin	205830-20-2		1.349	mg	35016	14989
				supplier	mold compound	Carbon Black	60676-86-0		0.193	mg	5010	2144
				supplier	mold compound	Crystalline Silica	14808-60-7		0.771	mg	20013	8567
				supplier	solder alloy	Tin (Sn)	7440-31-5		1.623	mg	1000000	18033
				supplier	alloy	Copper (Cu)	7440-50-8		8.523	mg	970508	94700
connections coating	Solder	1.623	mg	supplier	alloy	Iron (Fe)	7439-89-6		0.228	mg	25962	2533
				supplier	alloy	Phosphorus metal	7723-14-0		0.013	mg	1480	144
				supplier	alloy	Zinc (Zn)	7440-66-6		0.018	mg	2050	200
Clip	M-004 Copper and its alloys	8.782	mg	supplier	alloy	Iron (Fe)	7439-89-6		0.228	mg	25962	2533
				supplier	alloy	Phosphorus metal	7723-14-0		0.013	mg	1480	144
				supplier	alloy	Zinc (Zn)	7440-66-6		0.018	mg	2050	200