



Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute	version	2
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information	*: Required Field	

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2023-02-23
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	ADGMaterial Declaration 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

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	Manufacturing site	date
STPS30L120CT	H6DZ*Z30M02Z	A	998G	2023-02-23
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	1950.00	mg	Each	ECOPACK® 2
Identity	Authority			
Comment	ECOPACK® 2 is STMicroelectronics trade name f oxide flame retardant (in each organic material)	or ROHS compliant device without Bro	minated and Chlorinated compound (90	00ppm) and without Antimony

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
Not Applicable	Not Applicable	,		
Bulk solder termination	Terminal plating	Terminal base alloy	Comm	ent
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00624188	
Package designator	Package size	Number of instances	Shape	
SIP	10.00x9.10x4.50	3	Through-hole	
Comment	TO 220 AB NON ISOL			



lite.ougmented Material declaration form ACTIVE: 2/23/2023

QueryList: RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		Response
1 - Product(s) meets EU RoHS require	1 - Product(s) meets EU RoHS requirement without any exemptions	
2 - Product(s) meets EU RoHS require apply)	ments except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may	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 2020/363_March 2020		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.	Exemption Id. Description	
8(e) - 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 Feb 2022			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	2.453	die - leadframe	1258
ead 5.959 soft solder		3056	

QueryList : REACH-17 Jan 2023				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	5.96	Soft solder	3056
2 - Product(e) does not contain PEACH 9	Substances Of Very High Concern in any Embedded	Carticle per Hemographous Material abo	wa the limits per the definition within	
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	5.96	Soft solder	954968

QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals: Cobalt, Gold, Tantalum, Tin, Tungsten.	true
The following metals are present is the component :	Gold, Tin, Tungsten,

QueryList : Korea Chemical Control Act_27 Dec 2017 update	Response
The Product does contain at least one of the substances listed in Chemical Control Act	false

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	false

Stockholm Convention Persistent Organic Pollutants	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true



Material Composition Declaration: note: Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	H6DZ*Z30M02Z		1000,000		6000000	1000000
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	11.460	mg	supplier	die	Silicon(Si)	7440-21-3		11.195	mg	976876	5739
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.070	mg	6108	36
				supplier	metallisation	Gold(Au)	7440-57-5		0.050	mg	4363	26
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.050	mg	4363	26
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.010	mg	873	5
				supplier	metallisation	Tungsten(W)	7440-33-7		0.017	mg	1483	9
				supplier	passivation	Silicon oxide	7631-86-9		0.068	mg	5934	35
Leadframe	M-004 Copper and its alloys	1255.408	mg	supplier	alloy	Copper(Cu)	7440-50-8		1251.376	mg	996788	641731
				supplier	alloy	Iron(Fe)	7439-89-6		1.253	mg	998	643
				supplier	alloy	Iron phosphide	26508-33-8		0.376	mg	300	193
				supplier	metallization	Nickel (Ni)	7440-02-0		2.403	mg	1914	1232
Soft solder	Solder	6.240	mg	SVHC	solder	Lead(Pb)	7439-92-1	7a-Lead in high melting temperat	5.959	mg	954968	3056
				supplier	solder	Tin(Sn)	7440-31-5		0.125	mg	20032	64
				supplier	solder	Silver(Ag)	7440-22-4		0.156	mg	25000	80
Bonding wires	M-003 Aluminum and its alloys	4.706	mg	supplier	wire	Aluminium (Al)	7429-90-5		4.706	mg	1000000	2413
Encapsulation	M-011 Other inorganic materials	665.824	mg	supplier	mold compound	Silica vitreous	60676-86-0		466.077	mg	700001	239014
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		103.203	mg	155000	52925
				supplier	mold compound	Quartz	14808-60-7		33.291	mg	50000	17072
				supplier	mold compound	Phenol resin	9003-35-4		39.949	mg	59999	20487
				supplier	mold compound	Metal hydroxide	21645-51-2		19.975	mg	30000	10244
				supplier	mold compound	Carbon black	1333-86-4		3.329	mg	5000	1707
Connections coating	Solder	6.362	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		6.362	mg	1000000	3263