



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 *	2017-06-27
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giuseppe Vitali Palma	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
STPS30SM100SG-TR	SSD2*Z31M01V	A	3068	2017-06-27
Amount	UoM	Unit type	ST ECOPACK Grade	
1380.00	mg	Each	ECOPACK1	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
1	245	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	10.2-9.15-4.5	2	gull wing	
Comment	D2PAK			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 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)

Query : California Prop65 list, dated 27th January 2017			
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	0.14	Die back side metal - Leadframe metal	104
Lead	8.71	Soft solder	6312
Antimony trioxide	6.92	Encapsulation	5014

QueryList : REACH-12th January 2017				
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	SSD2*Z31M01V					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	10.237	mg	supplier	die	Silicon (Si)	7440-21-3		9.670	mg	944613	7007
				supplier	metallization	Aluminium (Al)	7429-90-5		0.400	mg	39074	290
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	879	7
				supplier	metallization	Tungsten (W)	7440-33-7		0.014	mg	1368	10
				supplier	Passivation	Silicon Oxide	7631-86-9		0.059	mg	5763	43
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.005	mg	488	4
				supplier	back side metallization	Gold (Au)	7440-57-5		0.014	mg	1368	10
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.066	mg	6447	48
				supplier	alloy	Copper (Cu)	7440-50-8		777.537	mg	998594	563433
				supplier	alloy	Iron (Fe)	7439-89-6		0.358	mg	460	259
Leadframe	Copper & its alloys	778.632	mg	supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.654	mg	840	474
				supplier	metallization	Nickel (Ni)	7440-02-0		0.077	mg	98	56
				supplier	metallization	Phosphorus (P)	12185-10-3		0.006	mg	8	4
				supplier	solder	Lead (Pb)	7439-92-1	7a-Lead in high met	8.710	mg	955044	6312
				supplier	solder	Silver (Ag)	7440-22-4		0.228	mg	25000	165
				supplier	solder	Tin (Sn)	7440-31-5		0.182	mg	19956	132
Soft solder	Solder	9.120	mg	JIG - R	solder	Aluminium (Al)	7429-90-5		2.894	mg	1000000	2097
				supplier	wire	Silica, vitreous	60676-86-0		464.762	mg	806000	336784
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		40.364	mg	70000	29249
Bonding wires	Other inorganic materials	2.894	mg	supplier	mold compound	Phenol resin	9003-35-4		23.065	mg	40000	16714
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		34.598	mg	60000	25070
				supplier	mold compound	Antimony Trioxide	1309-64-4		6.920	mg	12001	5014
				supplier	mold compound	Brominated Epoxy Resin	40039-93-8		4.036	mg	6999	2925
				supplier	mold compound	Carbon black	1333-86-4		2.883	mg	5000	2089
				supplier	solder alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804
				supplier	alloy	Carbon black	1333-86-4		2.883	mg	5000	2089
				supplier	alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804
Encapsulation	Other Organic Materials	576.628	mg	supplier	mold compound	Phenol resin	9003-35-4		23.065	mg	40000	16714
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		34.598	mg	60000	25070
Connections coating	Solder	2.489	mg	supplier	mold compound	Antimony Trioxide	1309-64-4		6.920	mg	12001	5014
				supplier	mold compound	Brominated Epoxy Resin	40039-93-8		4.036	mg	6999	2925
				supplier	mold compound	Carbon black	1333-86-4		2.883	mg	5000	2089
				supplier	solder alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804
				supplier	alloy	Carbon black	1333-86-4		2.883	mg	5000	2089
				supplier	alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804