



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 *	2015-09-21
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giovanni Giacobello	Representative Title	IPD 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
	HNZK*Z67Q81Y	A	ZA41	2015-09-21
Amount	UoM	Unit type	ST ECOPACK Grade	
250.00	mg	Each	ECOPACK® 2	

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	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	4.5X2.16X3.68	1	J bend	
Comment	Package: SMC CLIP (SOD 15 NEW); MDF valid for STPS3L40S			

QueryList : ROHS directive 2011/65/EU _ July 2011	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	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 : REACH-15th June 2015				
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						Mfr Item Name	HNZK*267Q81Y									
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	1.522	mg	supplier	die	Silicon (Si)	7440-21-3		1.448	mg	951380	5792				
				supplier	metallization	Aluminium (Al)	7429-90-5		0.009	mg	5913	36				
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	657	4				
				supplier	metallization	Tungsten (W)	7440-33-7		0.002	mg	1314	8				
				supplier	metallization	Nickel (Ni)	7440-02-0		0.007	mg	4599	28				
				supplier	metallization	Gold (Au)	7440-57-5		0.006	mg	3942	24				
				supplier	Passivation	Silicon Oxide	7631-86-9		0.009	mg	5913	36				
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	657	4				
				supplier	back side metallization	Gold (Au)	7440-57-5		0.002	mg	1314	8				
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.010	mg	6570	40				
				supplier	polymer die coating	Durimide	proprietary		0.027	mg	17740	108				
				Leadframe	Copper and its alloy	89.811	mg	supplier	alloy	Copper (Cu)	7440-50-8		89.768	mg	999521	359072
								supplier	alloy	Zinc (Zn)	7440-66-6		0.004	mg	45	16
supplier	alloy	Iron (Fe)	7439-89-6						0.009	mg	100	36				
supplier	alloy	Phosphorus (P)	12185-10-3						0.030	mg	334	120				
Die Attach	Solder	4.277	mg	JIG - R	Lead/Lead Compounds	Silver (Ag)	7439-92-1		3.956	mg	924947	15824				
				supplier	soft solder	Tin (Sn)	7440-31-5		0.214	mg	50035	856				
				supplier	soft solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	0.107	mg	25018	428				
Encapsulation	Other organic material	152.252	mg	supplier	Moulding Compound	Amorphous Silica	7631-86-9		93.483	mg	614002	373932				
				supplier	Moulding Compound	Quartz	14808-60-7		30.450	mg	199997	121800				
				supplier	Moulding Compound	epoxy resin	29690-82-2		18.270	mg	119998	73080				
				supplier	Moulding Compound	phenolic resin	29690-82-2		9.135	mg	59999	36540				
				supplier	Moulding Compound	Carbon black	1333-86-4		0.914	mg	6003	3656				
Finishing	Solder	2.138	mg	supplier	connection coating	Tin (Sn)	7440-31-5		2.138	mg	1000000	8552				