



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 *	2015-04-21
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Flavio Di Francesco	Representative Title	AMS Materials 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
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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
	DD6R*27L4AAW	A	BO2A	2015-04-21
Amount	UoM	Unit type	ST ECOPACK Grade	
54.82	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	Nicke/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	5 -4.4 -0.9	14	gull wing	
Comment	Package: TSSOP 14 BODY 4.4 PITCH 0.65; MD valid for TS27L4ACPT - TS27L4AIPT - TS27L4IPT - TS27L4CPT			

QueryList : ROHS directive 2011/65/EU _ July 2011				
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
5 - Product(s) is obsolete, no information is available				false
6 - Product(s) is unknown, no information is available				false
Exemption Id.	Description			
QueryList : REACH-17th December 2014				
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	DD6R*27L4AAW					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or Dies (choose)	Other inorganic materials	2.299	mg	supplier	die	Silicon (Si)	7440-21-3		2.242	mg	975207	40897
				supplier	metallization	Aluminium (Al)	7429-90-5		0.009	mg	3915	164
				supplier	passivation	Silicon Nitride (SiN)	12033-89-5		0.006	mg	2610	109
				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.042	mg	18269	766
Leadframe	Copper & its alloys	25.529	mg	supplier	alloy	Copper (Cu)	7440-50-8		24.545	mg	961456	447738
				supplier	alloy	Nickel (Ni)	7440-02-0		0.765	mg	29966	13955
				supplier	alloy	Magnesium (Mg)	7439-95-4		0.038	mg	1489	693
				supplier	alloy	Silicon (Si)	7440-21-3		0.166	mg	6502	3028
				supplier	metallization	Nickel (Ni)	7440-02-0		0.014	mg	548	255
				supplier	metallization	Palladium (Pd)	7440-05-3		0.001	mg	39	18
Die attach	Other inorganic materials	0.767	mg	supplier	glue or tape (choose)	Silver (Ag)	7440-22-4		0.698	mg	910039	12733
				supplier	glue or tape	acrylate	Proprietary		0.038	mg	49544	693
				supplier	glue or tape	Methacrylate	Proprietary		0.031	mg	40417	565
Bonding wire	Other inorganic materials	0.095	mg	supplier	wire	Copper (Cu)	7440-50-8		0.095	mg	1000000	1733
encapsulation	Other inorganic materials	26.130	mg	supplier	mold compound	Silica, vitreous	60676-86-0		22.917	mg	877038	418041
				supplier	mold compound	Epoxy resin A	EC 413-900-7		1.045	mg	39992	19062
				supplier	mold compound	Epoxy resin B	29690-82-2		1.045	mg	39992	19062
				supplier	mold compound	phenol resin	Proprietary		0.784	mg	30004	14301
				supplier	mold compound	carbon black	1333-86-4		0.078	mg	2985	1423
				supplier	mold compound	additive	Proprietary		0.261	mg	9989	4761