

Materials Declaration Form

IPC	1752	Version	2				
Form Type *	Distribute	Version	4				
Sectionals *	Material Info	Subsectionals *	A-D				
	Manufacturing Info		* : Required Field				

Supplier Information							
Company Name *	STMicroelectronics	Response Date *	2016-08-18				
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section				
Authorized Representative *	Floriana San Biagio	Representative Title	AMG MD CHAMPION				
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section				
Sunnlier Comment	Online Technical Support - STMicroele http://www.st.com/web/en/support/s						

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 omprehensive 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				
	MVBB*VB09ADJ	А	CA2A	2016-08-18				
	Amount	UoM	Unit type	ST ECOPACK Grade				
	1.18	mg	Each	ECOPACK® 2				
,		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							
1	260	3							
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life.augmented					
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		moraagiiioiiioa					

Package Designator	Size	Size Nbr of instances				
QFN	1x1x0.38	1x1x0.38 4 No lead				
Comment	Package: A0TH VFDFPN 1.0X1.0X0.38 4L PITCH 0,6; MDF valid for LDLN025PU275R					

QueryList: ROHS directive 2011/65/EU _ July 2011								
	Query Response							
1 - Product(s) meets EU RoHS requirement	t without any exemptions	true						
2 - Product(s) meets EU RoHS requirement apply)	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)							
3 - Product(s) meets EU RoHS requirement	ts by application of the selected exemption(s)	false						
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions								
Exemption Id.	Exemption Id. Description							

QueryList: REACH-20th June 2016								
Query Response								
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH								
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application								

aterial Composition Declaration : te : Substance present with less 0.001mg will not be declared in this document			Mfr Item Name	MVBB*	VB09ADJ							
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	0.113	mg	supplier	die	Silicon (Si)	7440-21-3		0.101	mg	893805	85593
				supplier	metallization	Aluminium (AI)	7429-90-5		0.003	mg	26549	2542
				supplier	metallization	Tungsten (W)	7440-33-7		0.002	mg	17699	1695
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	8850	847
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	53097	5085
Leadframe	Copper & its alloys	0.579	mg	supplier	alloy	Copper (Cu)	7440-50-8		0.560	mg	967185	474576
				supplier	alloy	Iron (Fe)	7439-89-6		0.013	mg	22453	11017
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.001	mg	1727	847
				supplier	alloy	Zinc (Zn)	7440-66-6		0.001	mg	1727	847
				supplier	metallization	Nickel (Ni)	7440-02-0		0.004	mg	6908	3390
Die attach	Other Organic Materials	0.036	mg	supplier	tape	amorphous silica	7631-86-9		0.024	mg	666667	20339
				supplier	tape	epoxy resin	25068-38-6		0.004	mg	111111	3390
				supplier	tape	Cycloaliphatic Epoxy Resin	244772-00-7		0.004	mg	111111	3390
				supplier	tape	Phenol resin	9003-35-4		0.004	mg	111111	3390
Bonding wires	Precious metals	0.023	mg	supplier	wire	Gold (Au)	7440-57-5		0.023	mg	1000000	19492
Encapsulation	Other Organic Materials	0.429	mg	supplier	mold compound	silica vitreous	60676-86-0		0.375	mg	874126	317797
				supplier	mold compound	Phenolic resin	205830-20-2		0.018	mg	41958	15254
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.018	mg	41958	15254
				supplier	mold compound	Epoxy resin	Proprietary		0.013	mg	30303	11017
				supplier	mold compound	carbon black	1333-86-4		0.001	mg	2331	847
				supplier	mold compound	other	Proprietary		0.004	mg	9324	3390