



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 *	2017-05-15
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
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
	9F8W*LL04AA6	A	Z8GA	2017-05-15
Amount	UoM	Unit type	ST ECOPACK Grade	
480.00	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
NAC	NAC	NAC		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
ating is used or other bulk terminati	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DIP	9.05X6.4X3.32	8	Through-hole	
Comment	Package: 8W PDIP 08 .3 CU .25 Au W.; MDF valid for MC34063EBN			

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	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
Exemption Id.	Description

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						Mfr Item Name	9F8W*LL04AA6					
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	5.996	mg	supplier	die	Silicon (Si)	7440-21-3		5.828	mg	971981	12142
				supplier	metallization	Aluminium (Al)	7429-90-5		0.075	mg	12508	156
				supplier	Passivation	Silicon Nitride	12033-89-5		0.025	mg	4169	52
				supplier	Passivation	Silicon Oxide	7631-86-9		0.045	mg	7505	94
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	167	2
				supplier	back side metallization	Gold (Au)	7440-57-5		0.004	mg	667	8
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.018	mg	3002	38
Leadframe	Copper & its alloys	186.665	mg	supplier	alloy	Copper (Cu)	7440-50-8		179.008	mg	964452	372933
				supplier	alloy	Iron (Fe)	7439-89-6		3.842	mg	20700	8004
				supplier	alloy	Phosphorus (P)	12185-10-3		0.028	mg	151	58
				supplier	alloy	Zinc (Zn)	7440-66-6		0.091	mg	490	190
				supplier	metallization	Silver (Ag)	7440-22-4		2.637	mg	14208	5494
				supplier	glue	Silver (Ag)	7440-22-4		0.526	mg	709852	1096
Die attach	Other organic materials	0.741	mg	supplier	glue	epoxy resin	Proprietary		0.111	mg	149798	231
				supplier	glue	2,6-Diglycidyl phenyl allyl ether	EC 417-470-1		0.060	mg	80972	125
				supplier	glue	Epoxy resin modifier	Proprietary		0.022	mg	29690	46
				supplier	glue	amine compound	Proprietary		0.022	mg	29690	46
				supplier	wire	Copper (Cu)	7440-50-8		0.092	mg	1000000	192
Bonding wires	Other organic materials	0.092	mg	supplier	wire	Copper (Cu)	7440-50-8		0.092	mg	1000000	192
				supplier	mold compound	Silica, vitreous	60676-86-0		247.477	mg	869998	515577
				supplier	mold compound	Epoxy resin	25068-38-6		28.446	mg	100001	59263
				supplier	mold compound	Phenol resin	29690-82-2		7.111	mg	24999	14815
Encapsulation	Other organic materials	284.457	mg	supplier	mold compound	Carbon Black	1333-86-4		1.423	mg	5003	2965
				supplier	connection coating	Tin (Sn)	7440-31-5		3.107	mg	1000000	6473
				supplier	connection coating	Tin (Sn)	7440-31-5		3.107	mg	1000000	6473
Finishing	Solder	3.107	mg	supplier	connection coating	Tin (Sn)	7440-31-5		3.107	mg	1000000	6473
				supplier	connection coating	Tin (Sn)	7440-31-5		3.107	mg	1000000	6473