



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 *	2016-06-10
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
	FDO7*D352BA6	A	BO2A	2016-06-10
Amount	UoM	Unit type	ST ECOPACK Grade	
76.29	mg	Each	ECOPACK® 1	
	Comment	ECOPACK® or ECOPACK® 1 is STMicroelectronics trade name for ROHS compliant devices		

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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	4.85x3.9x1.52	8	gull wing	
Comment	Package: 07 SO 08 .15 JEDEC; MDF valid for TD352IDT			

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
Exemption Id.	Description

QueryList : REACH-17th December 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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	FDO7*D352BA6					
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	2.879	mg	supplier	die	Silicon (Si)	7440-21-3		2.761	mg	959014	36191
				supplier	metallization	Aluminium (Al)	7429-90-5		0.028	mg	9726	367
				supplier	metallization	Copper (Cu)	7440-50-8		0.001	mg	347	13
				supplier	metallization	Titanium (Ti)	7440-32-6		0.003	mg	1042	39
				supplier	Passivation	Silicon Nitride	12033-89-5		0.008	mg	2779	105
				supplier	Passivation	Silicon Oxide	7631-86-9		0.048	mg	16672	629
Leadframe	Copper & its alloys	31.810	mg	supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.030	mg	10420	393
				supplier	alloy	Copper (Cu)	7440-50-8		30.923	mg	972116	405335
				supplier	alloy	Iron (Fe)	7439-89-6		0.727	mg	22854	9529
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.044	mg	1383	577
				supplier	alloy	Zinc (Zn)	7440-66-6		0.038	mg	1195	498
				supplier	metallization	Nickel (Ni)	7440-02-0		0.071	mg	2232	931
Die attach	Other Organic Materials	0.852	mg	supplier	metallization	Palladium (Pd)	7440-05-3		0.005	mg	157	66
				supplier	metallization	Gold (Au)	7440-57-5		0.002	mg	63	26
				supplier	glue	Silver (Ag)	7440-22-4		0.639	mg	750000	8376
Bonding wires	Precious metals	0.193	mg	supplier	glue	Epoxy Cresol Novolak	29690-82-2		0.210	mg	246479	2753
				supplier	glue	1-isopropyl-2,2-dimethyltrimethylene diisobut	6846-50-0		0.003	mg	3521	39
				supplier	wire	Gold (Au)	7440-57-5		0.193	mg	1000000	2530
Encapsulation	Other Organic Materials	40.556	mg	supplier	mold compound	Silica, vitreous	6076-86-0		32.444	mg	799980	425272
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		4.056	mg	100010	53166
				supplier	mold compound	phenol resin	9003-35-4		2.028	mg	50005	26583
				supplier	mold compound	Brominated epoxy resin	40039-93-8		0.811	mg	19997	10630
				supplier	mold compound	Antimony Trioxide	1309-64-4		0.811	mg	19997	10630
				supplier	mold compound	Carbon Black	1333-86-4		0.406	mg	10011	5322