



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2020-09-13
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	Floriana SAN BIAGIO	Representative Title	AMS 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
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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
	1DO7*V911ARL	A	64BA	2020-09-13
Amount	UoM	Unit type	ST ECOPACK Grade	
77	mg	Each	ECOPACK® 3	
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

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	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Package Size	Nbr of instances	Shape	
DSO	4.8 x 3.9	8	Gull wing	
Comment	07 SO 08 .15 JEDEC; MDF is valid for TSV911AIDT			

QueryList : RoHS Directive 2011/65/EU-July 2011 Annex II amended by Directive 2015/863-March 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 : ELV directive : 2000/53/EC amended 2020/363_March 2020	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	true
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	false
Exemption Id.	Description

QueryList : California Prop65 list, dated 3rd January 2020			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			true
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			false
Substance	amount in product (mg)	Application	ppm in product

QueryList : REACH-25th June 2020				
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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

QueryList : Korea Chemical Control Act_27 Dec 2017 update				
Query				Response
The Product does contain at least one of the substances listed in Chemical Control Act				false
Substance	Homogeneous Material impacted	Content in Homogeneous Material (mg)	Concentration in the material(%)	Application Purpose

Material Composition Declaration : note : Substance present with less 0.001mg. will not be declared in this document						Mfr. Item Name	1DO7*V911ARL		76.5		5999998.0	1000012.0
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	0.545	mg	supplier	die	Silicon(Si)	7440-21-3		0.527	mg	966972	6889
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.005	mg	9174	65
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	1835	13
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.001	mg	1835	13
				supplier	passivation	Silicon oxide	7631-86-9		0.011	mg	20183	144
				supplier	alloy	Copper(Cu)	7440-50-8		27.987	mg	972953	365843
Leadframe	M-004 Copper and its alloys	28.765	mg	supplier	alloy	Iron(Fe)	7439-89-6		0.658	mg	22875	8601
				supplier	alloy	Iron phosphide	1310-43-6		0.040	mg	1391	523
				supplier	alloy	Zinc(Zn)	7440-66-6		0.035	mg	1217	458
				supplier	metallization	Silver (Ag)	7440-22-4		0.045	mg	1564	588
				supplier	glue	Silver(Ag)	7440-22-4		0.034	mg	871795	444
Die attach	M-015 Other organic materials	0.039	mg	supplier	glue	Isobornyl Methacrylate	7534-94-3		0.002	mg	51282	26
				supplier	glue	Isobornyl acrylate	5888-33-5		0.002	mg	51282	26
				supplier	glue	Methyl acrylate polymer	87320-05-6		0.001	mg	25641	13
				supplier	wire	Copper(Cu)	7440-50-8		0.027	mg	1000000	353
Encapsulation	M-011 Other inorganic materials	46.407	mg	supplier	mold compound	Silica vitreous	60676-86-0		33.227	mg	715991	434340
				supplier	mold compound	Silicon oxide	7631-86-9		6.961	mg	149999	90993
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		3.481	mg	75010	45503
				supplier	mold compound	Phenol resin	26834-02-6		2.320	mg	49992	30327
				supplier	mold compound	Carbon black	1333-86-4		0.232	mg	4999	3033
				supplier	mold compound	Bismuth compound	7440-69-9		0.186	mg	4008	2431
connections coating	Solder	0.718	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.718	mg	1000000	9386