



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 *	2020-06-04
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 *	giovanni giacopello	Representative Title	ADG 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
L9333MD-TR	I527*U750BC6	A	959	2020-06-04
	Amount	UoM	Unit type	ST ECOPACK Grade
	500	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		
3	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00628237	



Package Designator	Size	Nbr of instances	Shape	
QFN	12.80,7.50,2.50	20	gull wing	
Comment	SO 20 .30 TO JEDEC MS-013. MDF valid for CPs: L9333MD,L9333MD-TR			

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 2017/2096 _November 2017	
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-16th January 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

Material Composition Declaration :						Mfr Item Name	IS27*U750BC6					
note : Substance present with less 0.001mg will not be declared in this document												
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	5.400	mg	supplier	die	Silicon(Si)	7440-21-3		5.239	mg	970185	10478
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.030	mg	5556	60
				supplier	metallisation	Copper(Cu)	7440-50-8		0.001	mg	185	2
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.017	mg	3148	34
				supplier	passivation	Silicon oxide	7631-86-9		0.070	mg	12963	140
Leadframe	M-004 Copper and its alloys	172.254	mg	supplier	polymer coating	Polyimide	Proprietary		0.043	mg	7963	86
				supplier	alloy & coating	Copper(Cu)	7440-50-8		171.920	mg	998060	343840
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.079	mg	459	158
				supplier	alloy & coating	Iron Phosphide(FeP)	26508-33-8		0.145	mg	842	290
Die attach		0.763	mg	supplier	alloy & coating	Silver (Ag)	7440-22-4		0.110	mg	639	220
				supplier	glue or tape (choose)	Silver(Ag)	7440-22-4		0.652	mg	854521	1304
				supplier	glue or tape	Dodecyl acrylate	2156-97-0		0.019	mg	24902	38
				supplier	glue or tape	Methylene diacrylate	42594-17-2		0.061	mg	79948	122
				supplier	glue or tape	Diglycidylphenyl glycidyl ether	13561-08-5		0.015	mg	19659	30
Bonding wires	M-008 Precious metals	0.342	mg	supplier	glue or tape	Isobornyl methacrylate	7534-94-3		0.008	mg	10485	16
				supplier	glue or tape	Dimethylbenzyl peroxide	80-43-3		0.008	mg	10485	16
				supplier	wire	Gold(Au)	7440-57-5		0.342	mg	1000000	684
Encapsulation	M-011 Other inorganic materials	318.669	mg	supplier	silica compound	Silica vitreous	60676-86-0		275.649	mg	865001	551298
				supplier	mold compound	Epoxy type resin	proprietary		31.867	mg	100000	63734
				supplier	mold compound	Phenol resin	proprietary		9.560	mg	30000	19120
connections coating	Solder	2.572	mg	supplier	mold compound	Carbon black	1333-86-4		1.593	mg	4999	3186
				supplier	solder alloy	Tin (Sn)	7440-31-5		2.572	mg	1000000	5144