



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 *	Antonella Lanzafame	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
ALED7707TR	8NY1*UK09BBA	A	Z7GA	2020-06-04
	Amount	UoM	Unit type	ST ECOPACK Grade
	69	mg	Each	ECOPACK® 2
Comment	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		
3	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		



Package Designator	Package Size	Nbr of instances	Shape	
QFN	50.755	0	Flat	
Comment	Y1 VFQFPN24 5X5X1.0 PITCH0.65 SAWN			

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-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

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	8NY1*UK09BBA				5999901.0	1000000.0
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	3.427	mg	supplier	die	Silicon(Si)	7440-21-3		3.258	mg	950686	47217
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.032	mg	9338	464
				supplier	metallisation	Tungsten(W)	7440-33-7		0.051	mg	14882	739
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.008	mg	2334	116
				supplier	passivation	Silicon oxide	7631-86-9		0.078	mg	22760	1130
Leadframe	M-004 Copper and its alloys	31.398	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		30.222	mg	962545	438000
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.061	mg	1943	884
				supplier	alloy & coating	Tin (Sn)	7440-31-5		0.076	mg	2421	1101
				supplier	alloy & coating	Chromium (Cr)	7440-47-3		0.082	mg	2612	1188
				supplier	alloy & coating	Silver (Ag)	7440-22-4		0.957	mg	30480	13870
Die attach	Solder	1.889	mg	supplier	glue	Epoxy Resin A	29690-82-2		0.133	mg	70408	1928
				supplier	glue	Epoxy Resin B	9003-36-5		0.260	mg	137639	3768
				supplier	glue	Phenol Resin	25085-75-0		0.260	mg	137639	3768
				supplier	glue	SiO2 Filler	7631-86-9		0.946	mg	500794	13710
				supplier	glue	Acrylic Copolymer	58152-79-7		0.290	mg	153520	4203
Bonding wires	M-008 Precious metals	0.215	mg	supplier	wire	Au	7440-57-5		0.215	mg	999900	3116
Encapsulation	M-011 Other inorganic materials	29.344	mg	supplier	mold compound	Epoxy Resin	Proprietary		0.733	mg	24979	10623
				supplier	mold compound	Phenol Resin	Proprietary		0.733	mg	24979	10623
				supplier	mold compound	Silica (Amorphous)A	60676-86-0		23.477	mg	800052	340246
				supplier	mold compound	Silica (Amorphous)B	7631-86-9		4.372	mg	148990	63362
				supplier	mold compound	Carbon Black	1333-86-4		0.029	mg	1000	425
connections coating	Solder	2.727	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.727	mg	1000000	39519