



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 *	2020-06-03
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

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.


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
TSX3702IDT	1D07*UY18CFA	A	BO2A	2020-06-03
	Amount	UoM	Unit type	ST ECOPACK Grade
	80	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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Package Size	Nbr of instances	Shape	
D50	4.93.91.25	8	Gull wing	
Comment	07 SO 08 .15 JEDEC			

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	ID07*UV18CFA				5000000.0	1000005.0
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	0.841	mg	supplier	die	Silicon(Si)	7440-21-3		0.825	mg	980975	10313
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.002	mg	2378	25
				supplier	passivation	Silicon oxide	7631-86-9		0.014	mg	16647	175
Leadframe	M-004 Copper and its alloys	29.191	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		27.988	mg	958789	349850
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.658	mg	22541	8225
				supplier	alloy & coating	Iron Phosphide(FeP)	26508-33-8		0.040	mg	1370	500
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.035	mg	1199	438
				supplier	alloy & coating	Silver (Ag)	7440-22-4		0.470	mg	16101	5875
Die attach		0.057	mg	supplier	glue	Silver(Ag)	7440-22-4		0.050	mg	877193	625
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.003	mg	52632	38
				supplier	glue	Isobornyl acrylate	5888-33-5		0.003	mg	52632	38
				supplier	glue	Methyl acrylate polymer	87320-05-6		0.001	mg	17544	13
Bonding wires	M-004 Copper and its alloys	0.054	mg	supplier	wire	Copper(Cu)	7440-50-8		0.054	mg	1000000	675
Encapsulation	M-011 Other inorganic materials	49.857	mg	supplier	mold compound	Silica vitreous	60676-86-0		35.698	mg	716008	446225
				supplier	mold compound	Silicon oxide	7631-86-9		7.479	mg	150009	93488
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		3.739	mg	74994	46738
				supplier	mold compound	Phenol resin	26834-02-6		2.493	mg	50003	31163
				supplier	mold compound	Carbon black	1333-86-4		0.249	mg	4994	3113
				supplier	mold compound	Bismuth compound	7440-69-9		0.199	mg	3991	2488