



Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2025-03-21
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*	NICOULEAU	Representative title	APMSMaterial Declaration 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
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	Manufacturing site	date
TSC2021IYDT	3DO7*UBHQ1BY	A	64BA-BO2A	2025-03-21
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	77	mg	Each	ECOPACK® 3
Identity	Authority			
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 temperature	Number of reflow cycles	
1	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Not Applicable	Tin (Sn), matte	Copper Alloy	0

Package designator	Package size	Number of instances	Shape
QFN	3.8x4.8	8	gull wing
Comment			
Comment	07 SO 08 .15 JEDEC		

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015	Response
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

QueryList : California Prop65 list, dated 3rd January 2025	Response
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

QueryList : REACH-21st January 2025	Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH	true
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



QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present is the component :	Gold, Tin,

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update	Response
The Product does contain at least one of the substances listed in Chemical Control Act	false

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	true
All the adhesive impacted complies with GB 33372	true

QueryList:Stockholm Convention Persistent Organic Pollutants (POP)	Response
Product is compliant with Annex A, B and C of Stockholm Convention Persistent Organic Pollutants	true

QueryList: EU Ship Recycling Regulation No. 1257/2013	Response
Product contains hazardous materials listed in Annex II of EU Ship Recycling Regulation No.1257/2013 and 2009/16/EC Directive	False

PFAS/PTFE Declaration	Response
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene, Thiophenium, Triphenylsulfonium nonaflate, Trifluoroacetic anhydride	False

BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True

Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True

Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True



Material Composition Declaration :						Mfr Item Name	3D07*UBHQ1BY			76.5000		6000004.0	999997.0
note : Substance present with less 0.001mg will not be declared in this document													
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)	
Die	M-011 Other inorganic materials	1.990	mg	supplier	die	Silicon(Si)	7440-21-3		1.915	mg	962312	25033	
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.019	mg	9548	248	
				supplier	metallisation	Copper(Cu)	7440-50-8		0.003	mg	1508	39	
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.001	mg	503	13	
				supplier	Passivation	Silicon nitride(Si)	12033-89-5		0.005	mg	2513	65	
				supplier	passivation	Silicon oxide	7631-86-9		0.047	mg	23618	614	
Leadframe	M-004 Copper and its alloys	30.514	mg	supplier	alloy	Copper(Cu)	7440-50-8		29.125	mg	954480	380719	
				supplier	alloy	Iron(Fe)	7439-89-6		0.685	mg	22449	8954	
				supplier	alloy	Iron phosphide	1310-43-6		0.041	mg	1344	536	
				supplier	alloy	Zinc(Zn)	7440-66-6		0.036	mg	1180	471	
				supplier	metallization	Silver(Ag)	7440-22-4		0.627	mg	20548	8196	
Die attach	M-011 Other inorganic materials	0.280	mg	supplier	glue	Silver(Ag)	7440-22-4		0.246	mg	878571	3216	
				supplier	glue	Isobornyl Meth	7534-94-3		0.014	mg	50000	183	
				supplier	glue	Isobornyl acryla	5888-33-5		0.014	mg	50000	183	
				supplier	glue	Methyl acrylate	87320-05-6		0.006	mg	21429	78	
Bonding wires	M-008 Precious metals	0.117	mg	supplier	wire	Gold(Au)	7440-57-5		0.117	mg	1000000	1529	
Encapsulation	M-015 Other organic materials	42.881	mg	supplier	mold compound	Silica vitreous	60676-86-0		30.703	mg	716005	401346	
				supplier	mold compound	Silicon oxide	7631-86-9		6.432	mg	149997	84078	
				supplier	mold compound	Biphenyl epoxy	85954-11-6		3.216	mg	74998	42039	
				supplier	mold compound	Phenol resin	26834-02-6		2.144	mg	49999	28026	
				supplier	mold compound	Carbon black	1333-86-4		0.214	mg	4991	2797	
supplier	mold compound	Bismuth compc	7440-69-9		0.172	mg	4011	2248					
Connections coating	Solder	0.718	mg	supplier	solder alloy	Tin(Sn)	7440-31-5		0.718	mg	1000000	9386	