



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 *	2022-07-07
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 Material 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

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
STGIK10M120T	IMFG*KLJFY5I	A	993H	2022-07-07
	Amount	UoM	Unit type	ST ECOPACK Grade
	22340	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		 life.augmented
Not Applicable	Not Applicable	.		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00854191	

Package Designator	Package Size	Nbr of instances	Shape	
DSO	52.50x31x5.60	30	Through-hole	
Comment	SDIPHP-30L			

QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 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 17th Dec 2021			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			false
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			true
Substance	amount in product (mg)	Application	ppm in product
Nickel	5.126	die - leadframe - wire - thermistor	229
Lead-Borate Glass	0.074	thermistor	3

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014				
Query				Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products				false
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products				false
Hasardous substance				
Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)	PBB & PBDE
X	O	O	O	O
Thermistor				
Homogeneous Material(s) containing Lead				

QueryList : REACH-17 Jan 2022				
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 : Responsible metals sourcing	
Query	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present in the component :	Gold, Tin,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

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

China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	
Query	Response
The product contains adhesives identified under GB 33372	false

Stockholm Convention Persistent Organic Pollutants	
Query	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	IMFG*KLIFYSI					
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	69.570	mg	supplier	die	Silicon(Si)	7440-21-3		64.290	mg	924106	2879
				supplier	metallisation	Aluminium(Al)	7429-90-5		2.068	mg	29725	93
				supplier	metallisation	Gold(Au)	7440-57-5		0.048	mg	690	2
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.664	mg	9544	30
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.029	mg	417	1
				supplier	metallisation	Silver(Ag)	7440-22-4		0.183	mg	2630	8
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.065	mg	934	3
				supplier	metallisation	Vanadium(V)	7440-62-2		0.034	mg	489	2
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.501	mg	7201	22
				supplier	passivation	Silicon oxide	7631-86-9		0.831	mg	11945	37
DBC	M-010 Ceramics / glass	2805.000	mg	supplier	polymer coating	Durimide	0.857	proprietary	0.857	mg	12319	38
				supplier	ceramic	Copper (Cu)	7440-50-8		2202.000	mg	78507	98568
				supplier	ceramic	Zirconium dioxide(ZTA)	1314-23-4		603.000	mg	214973	26992
				supplier	alloy	Copper (Cu)	7440-50-8		4506.170	mg	993643	201709
				supplier	alloy	Iron (Fe)	7439-89-6		6.773	mg	1493	303
				supplier	alloy	Phosphorus (P)	7723-14-0		2.258	mg	498	101
				supplier	metallization	Nickel (Ni)	7440-02-0		4.400	mg	970	197
				supplier	metallization	Silver (Ag)	7440-22-4		15.400	mg	3396	689
				supplier	glue	Silver (Ag)	7440-22-4		2.175	mg	870000	97
				supplier	glue	Epoxy resin	Proprietary		0.325	mg	130000	15
Soft solder	Solder	88.000	mg	supplier	solder	Tin (Sn)	7440-31-5		84.920	mg	965000	3801
				supplier	solder	Silver (Ag)	7440-22-4		2.640	mg	30000	118
				supplier	solder	Copper (Cu)	7440-50-8		0.440	mg	5000	20
				supplier	wire	Aluminum (Al)	7429-90-5		22.819	mg	973922	1021
Bonding wires	M-003 Aluminum and its alloys	23.430	mg	supplier	wire	Nickel (Ni)	7440-02-0		0.001	mg	43	0
				supplier	wire	Aluminum (Al)	7429-90-5		0.604	mg	25775	27
				supplier	wire	Silicon (Si)	7440-21-3		0.006	mg	260	0
				supplier	wire	Gold (Au)	7440-57-5		1.812	mg	990000	81
Bonding wires 2	M-008 Precious metals	1.830	mg	supplier	wire	Palladium (Pd)	7440-05-3		0.018	mg	10000	1
				supplier	mold compound	Silica, vitreous	60676-86-0		11779.310	mg	800000	527274
				supplier	mold compound	Phenol polymer with 3a,4,7,7a-tetrahydro-4,7-	119345-05-0		699.397	mg	47500	31307
				supplier	mold compound	Phenol polymer with formaldehyde	9003-35-4		699.397	mg	47500	31307
				supplier	mold compound	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetrameth	85954-11-6		699.397	mg	47500	31307
				supplier	mold compound	Carbon black	1333-86-4		147.241	mg	10000	6591
				supplier	mold compound	Carnauba wax and etc.	8015-86-9		699.396	mg	47500	31307
Connections coating	Solder	88.000	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		88.000	mg	1000000	3939
Thermistor	M-010 Ceramics / glass	2.532	mg	supplier	Ceramic	Ceramic materials and wares, chemicals	66402-68-4		1.945	mg	768166	87
				supplier	Glass	Siliconized silica	67762-90-7		0.039	mg	15403	2
				supplier	Glass	Barium oxide	1304-28-5		0.020	mg	7899	1
				supplier	JIG-R & California 6S	Lead-Borate Glass	65997-18-4		0.074	mg	29226	3
				supplier	Glass	Aluminium(Al)	7429-90-5		0.043	mg	16983	2
				supplier	Alloy	Silver (Ag)	7440-22-4		0.278	mg	109795	12
				supplier	Plating	Nickel (Ni)	7440-02-0		0.061	mg	24092	3
				supplier	Plating	Tin (Sn)	7440-31-5		0.072	mg	28436	3