



## 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*	2025-05-06
Authorized representative*	Cyrille Boulloud	Representative title	APMS Material Declaration Champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty statement**

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**Legal statement**

Supplier acceptance *	Legal declaration*	Standard
true		

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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
VG5761AANA	UKNA*761KGAQ	D	UTAC	2025-05-06
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	256	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			

Manufacturing information			
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	
3	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Tin/Silver/Copper (SAC305)	Not Applicable	Copper Alloy	DM00685868 1F145870 1F146535
Comment	IBGA104 10X8.5 3R12X10 B05 P08		

QueryList : RoHS Directive 2011/65/EU - 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	true

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	Response
1 - Product(s) meets EU ELV requirement without any exemptions	true

QueryList : California Prop65 list, dated 3rd January 2025	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	1.123	Substrate	4391

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014	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

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	false			
CategoryLevel_Name	CategoryLevel_Threshold	Amount in product (mg)	Application	ppm in product
Diboron trioxide	1000 ppm	3.93	In Glass	15365
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Homogeneous Material above the limits per the definition within REACH	false			
CategoryLevel_Name	CategoryLevel_Threshold	Amount in homogeneous material (mg)	Application - homogeneous material	ppm in homogeneous material
Diboron trioxide	1000 ppm	3.93	Glass	80010

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 : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
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	false
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
Other Fluorinated substance	Response
The product is containing fluorinated substance.	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 - note - Substance present with less 0.001mg will not be declared in this document						Manufacturing Item name	UKNA761KGAQ		255.7700		9000000.0	1000000.0				
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	30.750	mg	supplier	die	Silicon(Si)	7440-21-3		29.813	mg	969528	116562				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.076	mg	2472	297				
				supplier	metallisation	Copper(Cu)	7440-50-8		0.156	mg	5073	610				
				supplier	metallisation	Cobalt(Co)	7440-48-4		0.003	mg	98	12				
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.077	mg	2504	301				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.037	mg	1203	145				
				supplier	metallisation	Tungsten(W)	7440-33-7		0.005	mg	163	20				
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.145	mg	4715	567				
				supplier	passivation	Silicon Oxide	7631-86-9		0.339	mg	11024	1325				
				supplier	polymer coating	Polymer resist (color, planar,µlens)	proprietary		0.099	mg	3220	387				
				supplier	core material MGC HL832NXA	Thermosetting resin(including inorganic filler)	proprietary		14.031	mg	308028	54858				
				supplier	core material MGC HL832NXA	Glass cloth	65997-17-3		14.031	mg	308028	54858				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Acrylic Resin	proprietary		1.083	mg	23776	4234				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Carbon black and others	proprietary		0.035	mg	768	137				
Substrate	M-015 Other organic materials	45.551	mg	supplier	Solder Mask TAIYO PSR-4000 EG23A	Barium sulfate	7727-43-7		1.083	mg	23776	4234				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Talc	14807-96-6		0.175	mg	3842	684				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Photopolymerization initiator	proprietary		0.303	mg	6652	1185				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Amine compounds	proprietary		0.035	mg	768	137				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Defoaming agent	proprietary		0.175	mg	3842	684				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Diethylene glycol monoethyl ether acetate	112-15-2		0.478	mg	10494	1869				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Dipropylene Glycol Monomethyl Ether	34590-94-8		0.121	mg	2656	473				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Propylene Glycol Monomethyl Ether Acetate	108-65-6		0.035	mg	768	137				
				supplier	Solder Mask TAIYO PSR-4000 EG23A	Solvent naphtha	64742-94-5		0.478	mg	10494	1869				
				supplier	metallisation Cu Plating Guanghua Sci-Tech	Copper(Cu)	7440-50-8		12.248	mg	268885	47887				
				California 65	metallisation Ni Plating Nikkelverk	Nickel(Ni)	7440-02-0		1.123	mg	24654	4391				
				supplier	metallisation Au Plating Zhaojin kanfort	Gold(Au)	7440-57-5		0.117	mg	2569	457				
				Die attach Epoxy Henkel 2053S	M-015 Other organic materials	2.000	mg	supplier	glue	2-Phenoxyethyl acrylate	418145-04-6		0.460	mg	230000	1798
								supplier	glue	2,2-dimethyl-1,3-propanediyl bismethacrylate	1985-51-9		0.460	mg	230000	1798
supplier	glue	4,4'-isopropylidenediphenol-, polymer with (chloro	55818-57-0						0.460	mg	230000	1798				
supplier	glue	Phenol polymer with formaldehyde, glycidyl eth	28064-14-4						0.460	mg	230000	1798				
supplier	glue	Reaction product: bisphenol-A-	25068-38-6						0.080	mg	40000	313				
supplier	glue	Hydroquinone	123-31-9						0.080	mg	40000	313				
Glass seal Glue NAGASE T-694	M-015 Other organic materials	1.900	mg	supplier	glue	Bisphenol A type liquid epoxy resin	25068-38-6		0.285	mg	150000	1114				
				supplier	glue	Bisphenol F type liquid epoxy resin	9003-36-5		1.045	mg	550000	4086				
				supplier	glue	Silica	proprietary		0.285	mg	150000	1114				
				supplier	glue	Zirconium compound	proprietary		0.285	mg	150000	1114				
Bonding wire	M-008 Precious metals	6.540	mg	supplier	wire	Au	7440-57-5		6.539	mg	999847	25566				
				supplier	wire	Other	proprietary		0.001	mg	153	4				
Encapsulation FILL FP4802	M-015 Other organic materials	56.160	mg	supplier	mold compound	Silica, vitreous	60676-86-0		30.888	mg	550000	120765				
				supplier	mold compound	2,2'-(Methylenebis(phenyleneoxymethylene))bis	39817-09-9		8.424	mg	150000	32936				
				supplier	mold compound	Silicon dioxide	7631-86-9		8.424	mg	150000	32936				
				supplier	mold compound	Quartz (SiO2)	14808-60-7		3.931	mg	69996	15369				
				supplier	mold compound	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		3.931	mg	69996	15369				
				supplier	mold compound	3-Trimethoxysilylpropane-1-thiol	4420-74-0		0.281	mg	5004	1099				
				supplier	mold compound	Triphenylphosphine	603-35-0		0.281	mg	5004	1099				
				supplier	solder alloy	Tin(Sn)	7440-31-5		47.191	mg	970010	184506				
Solder balls	Solder	48.650	mg	supplier	solder alloy	Silver(Ag)	7440-22-4		1.216	mg	24995	4754				
				supplier	solder alloy	Copper(Cu)	7440-50-8		0.243	mg	4995	950				
				supplier	Glass	SILICON DIOXIDE	7631-86-9		29.472	mg	600013	115229				
				supplier	Glass	ALUMINIUM OXIDE	1344-28-1		2.947	mg	59997	11522				
				supplier	Glass	BORON TRIOXIDE	1303-86-2		3.930	mg	80010	15365				
				supplier	Glass	SODIUM OXIDE	1313-59-3		3.438	mg	69993	13442				
				supplier	Glass	POTASSIUM OXIDE	12136-45-7		3.438	mg	69993	13442				
				supplier	Glass	ZINC OXIDE	1314-13-2		2.947	mg	59997	11522				
				supplier	Glass	TITANIUM DIOXIDE	13463-67-7		2.456	mg	50001	9602				
				supplier	Glass	SELENIUM DIOXIDE	7446-08-4		0.491	mg	9996	1920				
Liner	M-015 Other organic materials	15.100	mg	supplier	Organic	Polyimide film	25038-81-7		7.044	mg	466490	27540				



				SVHC	Organic	N,N-Dimethylacetamide	127-19-5		0.007	mg	464	27
				supplier	Organic	Silicone resin	proprietary		0.987	mg	65364	3859



				supplier	Organic	Crosslink System	proprietary		0.010	mg	662	39
				supplier	Organic	Polyethylene terephthalate film	25038-59-9		7.052	mg	467020	27572