



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D
* : Required Field			

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	31-01-2018
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 *	MDG MD CHAMPION	Representative Title	MDG 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

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
M24128-DFCS6TP/K	P71C*2I283KA	B	9989	31-01-2018
	Amount	UoM	Unit type	ST ECOPACK Grade
	1.71	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
NAC	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Tin/Silver/Copper (SAC305)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
-	1.31x1.12	8		
Comment	Package : 1C WLCSP-R 8083125			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 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 : REACH-12th January 2017				
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	P71C*2I283KA				5000000.0	999417.0
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	1.197	mg	supplier	die	Silicon (Si)	7440-21-3		1.159	mg	968254	677778
				supplier	metallization	Aluminium (Al)	7429-90-5		0.004	mg	3342	2339
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	835	585
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	835	585
				supplier	Passivation	Silicon Nitride	12033-89-5		0.002	mg	1671	1170
				supplier	Passivation	Silicon Oxide	7631-86-9		0.030	mg	25063	17544
Polyimide Coating	M-011 Other inorganic materials	0.020	mg	Supplier	Chemicals	PD-9 Resin	57987-55-0		0.014	mg	678218	8012
				Supplier	Chemicals	Trifluoroacetic Anhydride	407-25-0		0.001	mg	59406	702
				Supplier	Chemicals	Tetraethylene Glycol Dimethacrylate	109-17-1		0.003	mg	143564	1696
				Supplier	Chemicals	4,4-Oxydiphthalic Anhydride	1823-59-2		0.001	mg	59406	702
				Supplier	Chemicals	2-Hydroxyethyl Methacrylate	868-77-9		0.001	mg	59406	702
				Supplier	Alloys	Titanium	7440-32-6		0.000	mg	90909	117
RDL	M-011 Other inorganic materials	0.002	mg	Supplier	Alloys	Aluminum	7429-90-5		0.002	mg	863636	1111
				Supplier	Alloys	Copper	7440-50-8		0.000	mg	45455	58
				Supplier	Alloys	Copper (Cu)	7440-50-8		0.002	mg	645161	1170
UBM	Copper & Its Alloys	0.003	mg	Supplier	Alloys	Titatnium	7440-32-6		0.000	mg	32258	58
				Supplier	Alloys	Nickel	7440-02-0		0.001	mg	290323	526
				Supplier	Alloys	Vanadium	7440-62-2		0.000	mg	32258	58
				Supplier	Alloys	Tin	7440-31-5		0.465	mg	955807	271930
Solder Ball	M-011 Other inorganic materials	0.487	mg	Supplier	Alloys	Silver	7440-22-4		0.020	mg	40082	11404
				Supplier	Alloys	Copper	7440-50-8		0.002	mg	4111	1170