



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 *	18-07-2018
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	<p>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.</p>

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32L151VEY6TR	H30T*437CCCZ	A	9989	18-07-2018
	Amount	UoM	Unit type	ST ECOPACK Grade
	23.43	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
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Solder ball SACN125 0.23mm	NAC	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
CHP	4.095X5.094x0.555	104	No lead	
Comment	Package : A0YY WLCSP 104L DIE 437 P 0.4MM 8505608			

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 : REACH-15th January 2018				
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 :						Mfr Item Name	H30T*437CCCZ				10999999.0	1000050.2
note : Substance present with less 0.001mg will not be declared in this document												
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	17.286	mg	supplier	die	Silicon (Si)	7440-21-3		16.696	mg	965868	712591
				supplier	metallization	Aluminium (Al)	7429-90-5		0.052	mg	3008	2219
				supplier	metallization	Copper (Cu)	7440-50-8		0.171	mg	9892	7298
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.020	mg	1157	854
				supplier	metallization	Titanium (Ti)	7440-32-6		0.026	mg	1504	1110
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	58	43
				supplier	Passivation	Silicon Nitride	12033-89-5		0.045	mg	2603	1921
				supplier	Passivation	Silicon Oxide	7631-86-9		0.275	mg	15909	11737
PI1 HD4100	M-011 Other inorganic materials	0.106	mg	Supplier	Plastics/polymers	3,6,9-Trioxaundecamethylene dimethacrylate	109-17-1		0.012	mg	116897	531
				Supplier	Plastics/polymers	Methanol	67-56-1		0.001	mg	10627	48
				Supplier	Plastics/polymers	Polyamic Acid Ester	Proprietary		0.079	mg	743889	3379
				Supplier	Plastics/polymers	2-Hydroxyethyl methacrylate	868-77-9		0.001	mg	11690	53
				Supplier	Plastics/polymers	Aromatic Oxime	Proprietary		0.012	mg	116897	531
PI2 HD4100	M-011 Other inorganic materials	0.090	mg	Supplier	Plastics/polymers	3,6,9-Trioxaundecamethylene dimethacrylate	109-17-1		0.011	mg	116897	450
				Supplier	Plastics/polymers	Methanol	67-56-1		0.001	mg	10627	41
				Supplier	Plastics/polymers	Polyamic Acid Ester	Proprietary		0.067	mg	743889	2865
				Supplier	Plastics/polymers	2-Hydroxyethyl methacrylate	868-77-9		0.001	mg	11690	45
				Supplier	Plastics/polymers	Aromatic Oxime	Proprietary		0.011	mg	116897	450
RDL-Ti Target	M-011 Other inorganic materials	0.001	mg	Supplier	Metals	Titanium	7440-32-6		0.001	mg	1000000	49
RDL-Cu Target	M-011 Other inorganic materials	0.005	mg	Supplier	Metals	Copper	7440-50-8		0.005	mg	1000000	195
RDL-Cu Anode	M-011 Other inorganic materials	0.091	mg	Supplier	Metals	Copper	7440-50-8		0.091	mg	1000000	3901
UBM-Ti Target	M-011 Other inorganic materials	0.000	mg	Supplier	Metals	Titanium	7440-32-6		0.000	mg	1000000	20
UBM-Cu Target	M-011 Other inorganic materials	0.002	mg	Supplier	Metals	Copper	7440-50-8		0.002	mg	1000000	79
UBM-Cu Anode	M-011 Other inorganic materials	0.080	mg	Supplier	Metals	Copper	7440-50-8		0.080	mg	1000000	3417
SOLDER BALLS SACN125 0.23mm	Solder	4.903	mg	Supplier	Metals	Tin	7440-31-5		4.768	mg	972569	203531
				Supplier	Metals	Silver	7440-22-4		0.059	mg	11970	2505
				Supplier	Metals	Copper	7440-50-8		0.076	mg	15461	3236
Backside Tape - LC2850	M-011 Other inorganic materials	0.866	mg	Supplier	Plastics/polymers	Polyethylene terephthalate	25038-59-9		0.608	mg	702811	25969
				Supplier	Plastics/polymers	Silica	Proprietary		0.135	mg	155622	5750
				Supplier	Plastics/polymers	Release agent	Proprietary		0.001	mg	1004	37
				Supplier	Plastics/polymers	Acrylic ester co-polymer	Proprietary		0.056	mg	65261	2411
				Supplier	Plastics/polymers	Epoxy resin	Proprietary		0.056	mg	65261	2411
				Supplier	Plastics/polymers	Carbon black	Proprietary		0.004	mg	5020	185
				Supplier	Plastics/polymers	Additive	Proprietary		0.004	mg	5020	185