



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 *	24-03-2020
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
STM8L152R8T6	M05W*768XXXZ	A	959	24-03-2020
	Amount	UoM	Unit type	ST ECOPACK Grade
	357.39	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
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable; if coating is used or other bulk termination	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFP	10x10X1.4	64	L Bend	
Comment	Package : 5W LQFP 64 10x10x1.4 1 0051434			

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-16th July 2019				
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	M05W*768XXXZ			6000000.0	1000001.0	
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	9.707	mg	supplier	die	Silicon (Si)	7440-21-3		9.525	mg	981251	26651
				supplier	metallization	Aluminium (Al)	7429-90-5		0.016	mg	1648	45
				supplier	metallization	Copper (Cu)	7440-50-8		0.053	mg	5460	148
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.006	mg	618	17
				supplier	metallization	Titanium (Ti)	7440-32-6		0.008	mg	824	22
				supplier	Passivation	Silicon Nitride	12033-89-5		0.014	mg	1442	39
				supplier	Passivation	Silicon Oxide	7631-86-9		0.085	mg	8757	238
Glue	M-011 Other inorganic materials	2.381	mg	Supplier	Metals	Silver (Ag)	7440-22-4		1.929	mg	810000	5396
				supplier	Plastics/polymers	acrylate	65983-31-5		0.155	mg	65000	433
				supplier	Plastics/polymers	copolymer	64401-02-1		0.143	mg	60000	400
				supplier	Plastics/polymers	Epoxy resin	65983-31-5		0.095	mg	40000	266
				supplier	Plastics/polymers	Butadiene copolymer	68891-50-9		0.048	mg	20000	133
				Supplier	Plastics/polymers	peroxyde de cyclohexylidenebis	3006-86-8		0.012	mg	5000	33
Mold Compound	M-011 Other inorganic materials	237.428	mg	Supplier	Plastics/polymers	Silica, vitreous	7440-22-4		213.688	mg	868727	597909
				Supplier	Plastics/polymers	Epoxy Resin	65983-31-5		17.807	mg	72393	49825
				Supplier	Plastics/polymers	Phenol Resin	64401-02-1		11.871	mg	48262	33217
				Supplier	Plastics/polymers	3-Mercaptopropyl trimethoxysilane	65983-31-5		1.187	mg	4826	3322
				Supplier	Glass	Quartz	68891-50-9		0.712	mg	2896	1993
Wire	Bonding Wire	0.389	mg	Supplier	Non-metals	Carbon black	3006-86-8		0.712	mg	2896	1993
				Supplier	Metals	Silver	7440-22-4		0.373	mg	960000	1044
				Supplier	Metals	Others	Proprietary		0.016	mg	40000	44
Plating	M-011 Other inorganic materials	1.438	mg	Supplier	Metals	Tin	7440-31-5		1.438	mg	1000000	4023
Leadframe	Copper & its alloys	97.500	mg	Supplier	Metals	Iron	7439-89-6		2.132	mg	21865	5965
				Supplier	Non-metals	Phosphorus	7723-14-0		0.071	mg	730	199
				Supplier	Metals	Zinc	7440-66-6		0.110	mg	1125	307
				Supplier	Metals	Copper	7440-50-8		89.045	mg	913280	249152
				Supplier	Metals	Silver	7440-22-4		6.143	mg	63000	17187

