



Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32F031G6U6	75MB*444XXA	A	998Z	18-01-2018
	Amount	UoM	Unit type	ST ECOPACK Grade
	24.09	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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	4X4X0.55	28	No lead	
Comment	Package : A0B0 UFQFPN 4X4X0.55 28L PITCH0.5 COL 8202209			

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	75MB*444XXXA				5000000.0	999959.0
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	2.026	mg	supplier	die	Silicon (Si)	7440-21-3		1.807	mg	891905	75021
				supplier	metallization	Aluminium (Al)	7429-90-5		0.015	mg	7404	623
				supplier	metallization	Copper (Cu)	7440-50-8		0.074	mg	36525	3072
				supplier	metallization	Cobalt (Co)	7440-48-4		0.014	mg	6910	581
				supplier	metallization	Titanium (Ti)	7440-32-6		0.004	mg	1974	166
				supplier	metallization	Tungsten (W)	7440-33-7		0.008	mg	3949	332
				supplier	Passivation	Silicon Nitride	12033-89-5		0.010	mg	4936	415
				supplier	Passivation	Silicon Oxide	7631-86-9		0.094	mg	46397	3903
				supplier	Metals	Silver	7440-22-4		0.097	mg	704535	4013
Die Attach Epoxy_ABLEBOND 8066NS	M-011 Other inorganic materials	0.137	mg	supplier	Plastics/polymers	Bisphenol-F, epoxy resin	9003-36-5		0.007	mg	48437	276
				supplier	Plastics/polymers	Fatty acids, polymers with epichlorohydrin	68475-94-5		0.007	mg	48437	276
				supplier	Organic Compounds	Gamma Butyrolactone	96-48-0		0.007	mg	48437	276
				supplier	Plastics/polymers	Epoxy Resin	Proprietary		0.007	mg	48437	276
				supplier	Amines	Poly(Oxy(methyl-1, 2-ethanediyl)	9046-10-0		0.007	mg	48437	276
				supplier	Metallic compounds	Copper Oxide	1317-38-0		0.007	mg	48437	276
				supplier	Organic Compounds	1,4-Bis(2,3-epoxypropoxy) butane	2425-79-8		0.001	mg	4844	28
				supplier	Plastics/polymers	Epoxy Resin	Proprietary		0.319	mg	29542	13231
Molding compound G770HCD_Sumitomo	M-011 Other inorganic materials	10.788	mg	supplier	Plastics/polymers	Phenol Resin	Proprietary		0.319	mg	29542	13231
				supplier	Glass	Silica (Amorphous) A	60676-86-0		8.499	mg	787789	352839
				supplier	Glass	Silica (Amorphous) B	7631-86-9		1.594	mg	147710	66157
				supplier	Additives	Carbon Black	1333-86-4		0.058	mg	5416	2426
				supplier	Metals	Gold	7440-57-5		0.190	mg	999420	7903
Wire_Au_MKE	M-011 Other inorganic materials	0.190	mg	supplier	Metals	Palladium	7440-05-3		0.000	mg	520	4
				supplier	Metals	Lanthanum	7439-91-0		0.000	mg	20	0
				supplier	Metals	Calcium	7440-70-2		0.000	mg	40	0
Leadframe C7+PPF_HDS	M-011 Other inorganic materials	10.944	mg	supplier	Metals	Nickel	7440-02-0		0.485	mg	44305	20130
				supplier	Glass	Silicon	7440-21-3		0.078	mg	7125	3237
				supplier	Metals	Magnesium	7439-95-4		0.019	mg	1720	781
				supplier	Metals	Gold	7440-57-5		0.003	mg	295	134
				supplier	Metals	Copper	7440-50-8		10.354	mg	946065	429853
				supplier	Metals	Palladium	7440-05-3		0.005	mg	490	223