


Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32G071GBU6	70MB*460XXB	A	998Z	14-11-2018
	Amount	UoM	Unit type	ST ECOPACK Grade
	24.11	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	70MB*460XXB				5000000.0	1000000.0
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	2.232	mg	supplier	die	Silicon (Si)	7440-21-3		2.035	mg	911738	84422
				supplier	metallization	Aluminium (Al)	7429-90-5		0.009	mg	4032	373
				supplier	metallization	Copper (Cu)	7440-50-8		0.084	mg	37634	3485
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.027	mg	12097	1120
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	448	41
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	448	41
				supplier	Passivation	Silicon Nitride	12033-89-5		0.021	mg	9409	871
				supplier	Passivation	Silicon Oxide	7631-86-9		0.054	mg	24194	2240
				Supplier	Epoxy Resin	Epoxy Resin A	Proprietary		0.019	mg	95238	805
Die Attach Epoxy_FILM HR-5104T-25	M-011 Other inorganic materials	0.204	mg	Supplier	Epoxy Resin	Epoxy Resin B	Proprietary		0.029	mg	142857	1208
				Supplier	Epoxy Resin	Phenol Resin	Proprietary		0.029	mg	142857	1208
				Supplier	Plastics/polymers	SiO2 Filler	Proprietary		0.097	mg	476190	4027
				Supplier	Epoxy Resin	(Meta)Acrylic Copolymer	Proprietary		0.029	mg	142857	1208
				Supplier	Epoxy Resin	Epoxy Resin	Proprietary		0.315	mg	29542	13079
Mold Compound_EME-G770HCD_Sur	M-011 Other inorganic materials	10.475	mg	Supplier	Plastics/polymers	Phenol Resin	Proprietary		0.315	mg	29542	13079
				Supplier	Plastics/polymers	Silica (Amorphous) A	60676-86-0		8.210	mg	787789	340610
				Supplier	Plastics/polymers	Silica (Amorphous) B	7631-86-9		1.576	mg	147710	65393
				Supplier	Additives	Carbon Black	1333-86-4		0.058	mg	5416	2398
				Supplier	Metals	Gold	7440-57-5		0.250	mg	999420	10380
Bonding wire_WIRE Au UR2 TYPE_MH	Bonding Wire	0.250	mg	Supplier	Metals	Palladium	7440-05-3		0.000	mg	520	5
				Supplier	Metals	Lanthanum	7439-91-0		0.000	mg	20	0
				Supplier	Metals	Calcium	7440-70-2		0.000	mg	40	0
Lead frame_C7+Ni/Pb/Au-Ag_HDS	Copper & its alloys	10.944	mg	Supplier	Metals	Nickel	7440-02-0		0.485	mg	44305	20115
				Supplier	Glass	Silicon	7440-21-3		0.078	mg	7125	3235
				Supplier	Metals	Magnesium	7439-95-4		0.019	mg	1720	781
				Supplier	Metals	Silver	7440-22-4		0.002	mg	215	98
				Supplier	Metals	Copper	7440-50-8		10.351	mg	945850	429422
				Supplier	Metals	Palladium	7440-05-3		0.005	mg	490	222
				Supplier	Metals	Gold	7440-57-5		0.003	mg	295	134