


Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32G050C8T6 STM32G050C8T6TR	745B*456XXXZ	A	998Z	13-07-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	178.39	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), immersion	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFP	7x7	48	L bend	
Comment	Package : 5B LQFP 48 7x7x1.4 1 0110596			

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-10 Jun 2022				
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	745B*456XXXZ				6000002.0	1000000.3
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	4.227	mg	supplier	die	Silicon (Si)	7440-21-3		4.066	mg	961912	22793
				supplier	metallization	Aluminium (Al)	7429-90-5		0.008	mg	1893	45
				supplier	metallization	Copper (Cu)	7440-50-8		0.068	mg	16087	381
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.022	mg	5205	123
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	237	6
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	237	6
				supplier	Passivation	Silicon Nitride	12033-89-5		0.017	mg	4022	95
Glue epoxy (3230)	M-011 Other inorganic materials	0.566	mg	Supplier	Passivation	Silicon Oxide	7631-86-9		0.044	mg	10409	247
				Supplier	Metals	Silver (Ag)	7440-22-4		0.462	mg	815000	2590
				Supplier	Plastics/polymers	2,2'-(Methylenebis(phenyleneoxymethylene))	39817-09-9		0.017	mg	30000	95
				Supplier	Organic Compounds	Dihydro-3-(tetrapropenyl)furan-2,5-dione	26544-38-7		0.017	mg	30000	95
				Supplier	Organic Compounds	Epoxy resin	Proprietary		0.017	mg	30000	95
				Supplier	Organic Compounds	Dodecylloxirane	3234-28-4		0.017	mg	30000	95
				Supplier	Organic Compounds	Hexahydromethylphthalic anhydride	25550-51-0		0.017	mg	30000	95
				Supplier	Organic Compounds	Epoxy resin modifier	Proprietary		0.017	mg	30000	95
				Supplier	Metallic compounds	Copper oxide	1317-38-0		0.003	mg	5000	17
				Supplier	Plastics/polymers	Epoxy Resin A	Trade Secret		2.535	mg	21000	14211
Encapsulation (EME-G6315HQ)	M-011 Other inorganic materials	120.728	mg	Supplier	Plastics/polymers	Epoxy Resin B	Trade Secret		2.535	mg	21000	14211
				Supplier	Plastics/polymers	Phenol Resin	Trade Secret		6.761	mg	56000	37901
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		94.222	mg	780450	528189
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		13.922	mg	115320	78044
				Supplier	Non-metals	Carbon Black	1333-86-4		0.752	mg	6230	4216
Bonding Wire (Au)	Bonding Wire	0.783	mg	Supplier	Metals	Gold (Au)	7440-57-5		0.783	mg	1000000	4389
Plating (Sn)	M-011 Other inorganic materials	1.078	mg	Supplier	Metals	Tin (Sn)	7440-31-5		1.078	mg	1000000	6043
Leadframe (C194 + Ag)	Copper & its alloys	51.005	mg	Supplier	Metals	Copper (Cu)	7440-50-8		49.589	mg	972238	277986
				Supplier	Metals	Iron (Fe)	7439-89-6		1.158	mg	22704	6492
				Supplier	Metals	Zinc (Zn)	7440-66-6		0.077	mg	1510	432
				Supplier	Non-Metals	Phosphorus (P)	7723-14-0		0.015	mg	294	84
				Supplier	Metals	Silver (Ag)	7440-22-4		0.166	mg	3255	931