


Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32C031C6T7 STM32C031C6T7TR	735B*453XXXZ	A	998Z	26-07-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	178.13	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 : add in comments	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	735B*453XXZ				5999949.0	999958.1
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	2.568	mg	supplier	die	Silicon (Si)	7440-21-3		2.468	mg	961059	13855
				supplier	metallization	Aluminium (Al)	7429-90-5		0.005	mg	1947	28
				supplier	metallization	Copper (Cu)	7440-50-8		0.042	mg	16355	236
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.014	mg	5452	79
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	389	6
				supplier	Passivation	Silicon Nitride	12033-89-5		0.011	mg	4283	62
				supplier	Passivation	Silicon Oxide	7631-86-9		0.027	mg	10514	152
Glue epoxy (3230)	M-011 Other inorganic materials	0.350	mg	Supplier	Metals	Silver (Ag)	7440-22-4		0.285	mg	815000	1602
				Supplier	Plastics/polymers	2,2'-(Methylenebis(phenyleneoxymethylene))	39817-09-9		0.011	mg	30000	59
				Supplier	Organic Compounds	Dihydro-3-(tetrapropenyl)furan-2,5-dione	26544-38-7		0.011	mg	30000	59
				Supplier	Organic Compounds	Maleic anhydride	108-31-6		0.011	mg	30000	59
				Supplier	Organic Compounds	Dodecyloxirane	3234-28-4		0.011	mg	30000	59
				Supplier	Organic Compounds	Hexahydromethylphthalic anhydride	25550-51-0		0.011	mg	30000	59
				Supplier	Organic Compounds	Epoxy resin modifier	Proprietary		0.011	mg	30000	59
Encapsulation (EME-G631SHQ)	M-011 Other inorganic materials	122.261	mg	Supplier	Metallic compounds	Copper oxide	1317-38-0		0.002	mg	5000	10
				Supplier	Plastics/polymers	Epoxy Resin A	Proprietary		2.567	mg	21000	14413
				Supplier	Plastics/polymers	Epoxy Resin B	Proprietary		2.567	mg	21000	14413
				Supplier	Plastics/polymers	Phenol Resin	Proprietary		6.847	mg	56000	38435
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		95.419	mg	780450	535655
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		14.099	mg	115320	79149
				Supplier	Non-metals	Carbon Black	1333-86-4		0.762	mg	6230	4276
Bonding Wire (Au)	Bonding Wire	0.865	mg	Supplier	Metals	Gold (Au)	7440-57-5		0.865	mg	1000000	4855
External plating (Sn)	M-011 Other inorganic materials	1.078	mg	Supplier	Metals	Tin (Sn)	7440-31-5		1.078	mg	1000000	6054
Leadframe (C194 + Ag)	Copper & its alloys	51.007	mg	Supplier	Metals	Copper (Cu)	7440-50-8		49.589	mg	972200	278379
				Supplier	Metals	Iron (Fe)	7439-89-6		1.158	mg	22700	6500
				Supplier	Metals	Zinc (Zn)	7440-66-6		0.077	mg	1500	430
				Supplier	Non-Metals	Phosphorus (P)	7723-14-0		0.015	mg	300	86
				Supplier	Metals	Silver (Ag)	7440-22-4		0.166	mg	3250	931