

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STM32U585CIU3Q	76MI*482XXXW	A	998Z	23-08-2023
	Amount	UoM	Unit type	ST ECOPACK Grade
	103.62	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	
QFN	7x7x0.55	48	flat	
Comment	Package : A0B9 UFQFPN 7X7X0.55 48L 0.5 MM PITCH 8202210			

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	76MI*482XXXW				5999999.0	1000000.8
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	5.856	mg	supplier	die	Silicon (Si)	7440-21-3		5.285	mg	902493	51004
				supplier	metallization	Aluminium (Al)	7429-90-5		0.063	mg	10758	608
				supplier	metallization	Copper (Cu)	7440-50-8		0.188	mg	32104	1814
				supplier	metallization	Nickel (Ni)	7440-02-0		0.001	mg	171	10
				supplier	metallization	Tantalum (Ta)	7440-25-7		0.032	mg	5464	309
				supplier	metallization	Titanium (Ti)	7440-32-6		0.008	mg	1366	77
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	171	10
				supplier	Passivation	Silicon Nitride	12033-89-5		0.045	mg	7684	434
				supplier	Passivation	Silicon Oxide	7631-86-9		0.233	mg	39788	2249
				Glue epoxy (EN4900GCSd)	M-011 Other inorganic materials	1.995	mg	Supplier	Organic Compounds	Acrylic resin	Trade Secret	
Supplier	Organic Compounds	Polybutadiene derivative	Trade Secret						0.040	mg	20000	386
Supplier	Organic Compounds	Butadiene copolymer	Trade Secret						0.030	mg	15000	290
Supplier	Organic Compounds	Acrylate	Trade Secret						0.108	mg	54000	1042
Supplier	Organic Compounds	Epoxy resin	Trade Secret						0.060	mg	30000	579
Supplier	Organic Compounds	Peroxide	Trade Secret						0.016	mg	8000	154
Supplier	Organic Compounds	Additive	Trade Secret						0.036	mg	18000	347
Supplier	Metals	Silver (Ag)	7440-22-4						1.565	mg	785000	15103
Encapsulation (EME-G770)	M-011 Other inorganic materials	32.795	mg	Supplier	Organic Compounds	Epoxy Resin A	Trade Secret		0.689	mg	21000	6649
				Supplier	Organic Compounds	Epoxy Resin B	Trade Secret		0.689	mg	21000	6649
				Supplier	Organic Compounds	Phenol Resin A	Trade Secret		0.689	mg	21000	6649
				Supplier	Glass	Silica(Amorphous)A	60676-86-0		25.594	mg	780450	246999
				Supplier	Glass	Silica(Amorphous)B	7631-86-9		3.782	mg	115320	36499
				Supplier	Organic Compounds	Carbon Black	1333-86-4		0.204	mg	6230	1969
				Supplier	Metallic compounds	Metal Hydroxide	Trade Secret		0.459	mg	14000	4430
				Supplier	Organic Compounds	Phenol Resin B	Trade Secret		0.689	mg	21000	6649
Bonding wire (Au)	Bonding Wire	0.696	mg	Supplier	Metals	Gold (Au)	7440-57-5		0.696	mg	1000000	6717
Plating Anode (Sn)	M-011 Other inorganic materials	1.078	mg	Supplier	Metals	Tin (Sn)	7440-31-5		1.078	mg	1000000	10403
Leadframe (C7025 + Ag)	Copper & its alloys	61.200	mg	Supplier	Metals	Copper (Cu)	7440-50-8		56.129	mg	917140	541681
				Supplier	Metals	Nickel (Ni)	7440-02-0		1.377	mg	22500	13289
				Supplier	Metals	Silicon (Si)	7440-21-3		0.159	mg	2600	1534
				Supplier	Metals	Magnesium (Mg)	7439-95-4		0.070	mg	1150	676
				Supplier	Metals	Silver (Ag)	7440-22-4		3.465	mg	56610	33439