


Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
ST7FLITE29F2M6TR	90Z7*837XXX3	A	959	13-12-2017
	Amount	UoM	Unit type	ST ECOPACK Grade
	500.00	mg	Each	ECOPACK® 1
	Comment	ECOPACK® or ECOPACK® 1 is STMicroelectronics trade name for ROHS compliant devices		

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	
NAC	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SON	NAC	20	Gull Wing	
Comment	Package : Z7 SO 20 .30 TO JEDEC MS-013 0016022			

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 :						Mfr Item Name	9027*837XXX3				5999998.0	999999.0
note : Substance present with less 0.001mg will not be declared in this document												
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	10.284	mg	supplier	die	Silicon (Si)	7440-21-3		10.010	mg	973357	20020
				supplier	metallization	Copper (Cu)	7440-50-8		0.224	mg	21781	448
				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	875	18
				supplier	Passivation	Silicon Nitride	12033-89-5		0.010	mg	972	20
				supplier	Passivation	Silicon Oxide	7631-86-9		0.031	mg	3014	62
Lead-frame	M-011 Other inorganic materials	151.921	mg	supplier	alloy	Copper (Cu)	7440-50-8		148.047	mg	974500	296094
				supplier	alloy	Iron (Fe)	7439-89-6		3.564	mg	23460	7128
				supplier	alloy	Zinc (Zn)	7440-66-6		0.182	mg	1200	365
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.128	mg	840	255
Die Attach	M-011 Other inorganic materials	2.170	mg	supplier	glue or soft solder	Silver (Ag)	7440-22-4		1.855	mg	855000	3711
				supplier	glue or soft solder	Dodecyl acrylate	2156-97-0		0.054	mg	25000	108
				supplier	glue or soft solder	methylene diacrylate	42594-17-2		0.174	mg	80000	347
				supplier	glue or soft solder	Diglycidylphenyl glycidyl ether	13561-08-5		0.043	mg	20000	87
				supplier	glue or soft solder	Isobornyl Methacrylate	7534-94-3		0.022	mg	10000	43
Wires	M-011 Other inorganic materials	0.863	mg	supplier	glue or soft solder	dimethylbenzyl peroxide	80-43-3		0.022	mg	10000	43
				supplier	Bonding wire	Gold (Au)	7440-57-5		0.863	mg	1000000	1726
Encapsulation	M-011 Other inorganic materials	332.149	mg	supplier	Moulding Compound	Silica, vitreous	60676-86-0		290.251	mg	873857	580502
				supplier	Moulding Compound	Epoxy resin	Proprietary		30.154	mg	90784	60308
				supplier	Antimony/Antimony Compounds	Phenol resin	Proprietary		10.067	mg	30307	20133
				supplier	Brominated Flame Retardants (other than	Carbon black	1333-86-4		1.678	mg	5051	3356
Finishing	M-011 Other inorganic materials	2.613	mg	supplier	connections coating	Tin (Sn)	7440-31-5		2.613	mg	1000000	5225