



Materials Declaration Form

IPC	1752	Version	2
Form Type *	Distribute		
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D * : Required Field

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2020-06-08
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	Floriana SAN BIAGIO	Representative Title	AMS MD CHAMPION
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement

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Legal Statement

Supplier Acceptance *	true	Legal Declaration *	Standard
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Legal Statement

Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
	DS6P*0922BR6	A	Z9LA	2020-06-08
	Amount	UoM	Unit type	ST ECOPACK Grade
	34.89	mg	Each	ECOPACK® 3
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy	0	

Package Designator	Size	Nbr of instances	Shape	
DSO	314.4	8	gull wing	
Comment	6P TSSOP 8 BODY 4.4 PITCH 0.65; MDF is valid for TS9222IPT and TS9221IPT			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 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 : ELV directive : 2000/53/EC amended 2020/363_March 2020	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	TRUE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : California Prop65 list, dated 3rd January 2020			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.28	alloy	8025

QueryList : REACH-16th January 2020				
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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update				
Query				Response
The Product does contain at least one of the substances listed in Chemical Control Act				NO
Substance	Homogeneous Material impacted	Content in Homogeneous Material (mg)	Concentration in the material(%)	Application Purpose

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	D56P*0922BR6				6000003.0	999999.0
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	1.346	mg	supplier	die	Silicon(Si)	7440-21-3		1.335	mg	991828	38263
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.005	mg	3715	143
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.003	mg	2229	86
				supplier	passivation	Silicon oxide	7631-86-9		0.003	mg	2229	86
				supplier	alloy & coating	Copper(Cu)	7440-50-8		10.700	mg	957837	306678
Leadframe	M-004 Copper and its alloys	11.171	mg	supplier	alloy & coating	Nickel(Ni)	7440-02-0		0.280	mg	25065	8025
				supplier	alloy & coating	Magnesium(Mg)	7439-95-4		0.011	mg	985	315
				supplier	alloy & coating	Silicon(Si)	7440-21-3		0.114	mg	10205	3267
				supplier	alloy & coating	Silver (Ag)	7440-22-4		0.066	mg	5908	1892
				supplier	glue	Silver	7440-22-4		0.130	mg	773810	3726
Die attach	M-011 Other inorganic materials	0.168	mg	supplier	glue	Acrylate monomer	61434-04-6		0.020	mg	119048	573
				supplier	glue	Acrylate oligomer	Proprietary		0.012	mg	71429	344
				supplier	glue	Bismaleimide resin	Proprietary		0.005	mg	29762	143
				supplier	glue	Epoxy resin	26875-67-2		0.001	mg	5952	29
				supplier	wire	Cu	7440-50-8		0.019	mg	35382	545
Bonding wires	M-004 Copper and its alloys	0.537	mg	supplier	wire	Pd	7440-05-3		0.518	mg	964618	14847
				supplier	mold compound	Epoxy Resin 1	Proprietary		0.089	mg	4537	2551
				supplier	mold compound	Epoxy Resin 2	Proprietary		0.089	mg	4537	2551
				supplier	mold compound	Epoxy Resin 3	Proprietary		0.089	mg	4537	2551
				supplier	mold compound	Phenol Resin	9003-35-4		0.393	mg	20033	11264
				supplier	mold compound	Carbon black	1333-86-4		0.020	mg	1019	573
				supplier	mold compound	Amorphous silica	60676-86-0		18.759	mg	956214	537661
				supplier	mold compound	Crystal silica	14808-60-7		0.179	mg	9124	5130
				supplier	solder alloy	Tin (Sn)	7440-31-5		2.050	mg	1000000	58756
connections coating	Solder	2.050	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.050	mg	1000000	58756