



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2015-10-29
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giovanni Giacopello	Representative Title	IPD 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
	PPZ6*P6A808B	A	Z4LA	2015-10-29
Amount	UoM	Unit type	ST ECOPACK Grade	
4200.00	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	245	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	16 - 13.9 - 19	2	gull wing	

Comment	Package: D3PAK-2L; MDF valid for TM8050H-8D3			
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QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	false
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)	true
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	false
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : REACH-15th June 2015				
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	PP26*P6A8088					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	18.823	mg	supplier	die	Silicon (Si)	7440-21-3		17.615	mg	935823	4194
				supplier	Passivation	Silicon Oxide	7631-86-9		0.334	mg	17744	80
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.097	mg	5153	23
				supplier	back side metallization	Gold (Au)	7440-57-5		0.034	mg	1806	8
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.160	mg	8500	38
Leadframe	Copper & its alloys	2350.013	mg	supplier	alloy	Copper (Cu)	7440-50-8		2337.558	mg	994700	556561
				supplier	alloy	Iron (Fe)	7439-89-6		2.350	mg	1000	560
				supplier	alloy	Nickel (Ni)	7440-02-0		9.400	mg	4000	2238
				supplier	alloy	Phosphorus (P)	12185-10-3		0.705	mg	300	168
				supplier	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	20.021	mg	925014	4767
Soft solder	Other organic materials	21.644	mg	supplier	solder	Tin (Sn)	7440-31-5		1.082	mg	49991	258
				supplier	solder	Silver (Ag)	7440-22-4		0.541	mg	24995	129
				supplier	wire	Aluminium (Al)	7429-90-5		8.451	mg	1000000	2012
Bonding wires	Other organic materials	8.451	mg	supplier	wire	Aluminium (Al)	7429-90-5		8.451	mg	1000000	2012
				supplier	mold compound	Epoxy Resin	25068-38-6		53.707	mg	30000	12787
				supplier	mold compound	2,2'-((3,3',5,5'-tetramethyl-1,1'-biphenyl)-4,4'	EC 413-900-7		71.609	mg	40000	17050
				supplier	mold compound	phenol resin	29690-82-2		89.511	mg	50000	21312
				supplier	mold compound	Silica, vitreous	60676-86-0		1566.441	mg	875000	372962
Encapsulation	Other Organic Materials	1790.219	mg	supplier	mold compound	Carbon black	1333-86-4		8.951	mg	5000	2131
				supplier	mold compound	Carbon black	1333-86-4		8.951	mg	5000	2131
				supplier	solder alloy	Tin (Sn)	7440-31-5		10.850	mg	1000000	2583
connections coating	Solder	10.850	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		10.850	mg	1000000	2583