

## **Materials Declaration Form**

IPC	1752	Version	2
Form Type *	Distribute	version	2
Sectionals *	Material Info	Subsectionals *	A-D
	Manufacturing Info		* : Required Field
Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2014-07-21
Contact Name *	Refer to " Supplier Comment" section	Contact Title	Refer to " Supplier Comment" section
Contact Phone *	Refer to " Supplier Comment" section	Contact Email *	Refer to " Supplier Comment" section
Authorized Representative *	Antonella Lanzafame	Representative Title	AMS & IPD Materials Declaration Champion
Representative Phone *	Refer to " Supplier Comment" section	Representative Email *	Refer to " Supplier Comment" section
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Product								
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date				
	E1YM*UF46JC5	А	ZY1A	2014-07-21				
	Amount	UoM	Unit type	ST ECOPACK Grade				
	109.00	mg	Each	ECOPACK <sup>®</sup> 2				

Manufacturing information								
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles						
3	260	3						
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	life, augmented				
Not Applicable ; if coating is used o	Tin (Sn), matte	Copper Alloy		meradgmerned				

Package Designator	Size	Nbr of instances	Shape	
DSO	9.7X4.4X0.9 28		gull wing	
Comment	TSSOP 28 BODY 4.4 PITCH 0.65; MD va	lid for CP:ST3243EBTR.		

QueryList: ROHS directive 2011/65/EU _ July 2011							
Query							
Product(s) meets EU RoHS requirement without any exemptions							
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)							
Product(s) meets EU RoHS requirements I	by application of the selected exemption(s)	false					
Product(s) does not meet EU RoHS require	ements and is not under exemptions	false					
Product(s) is obsolete, no information is a	vailable	false					
Product(s) is unknown, no information is available							
Exemption Id. Description							

QueryList : REACH-16th December 2013								
Query								
The product does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH								
CategoryLevel_Name CategoryLevel_Threshold amount in product (mg) Application								

Material Composition Declaration				Mfr Item Name	E1YM*	UF46JC5						
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Silicon die	Other inorganic materials	6.861	mg	supplier	Silicon die	Silicon (Si)	7440-21-3		6.691	mg	975222	61385
Silicon die			mg	supplier	Alloy	Aluminium (Al)	7429-90-5		0.055	mg	8016	505
Silicon die			mg	supplier	Alloy	Silicon Nitride (SiN)	68034-42-4		0.021	mg	3061	193
Silicon die			mg	supplier	Alloy	Silicon Oxide(SiO2)	7631-86-9		0.094	mg	13701	862
LEADFRAME	Copper and its alloy	51.532	mg	supplier	ALLOY	Copper (Cu)	7440-50-8		48.575	mg	942618	445642
LEADFRAME			mg	supplier	ALLOY	Nickel (Ni)	7440-02-0		1.515	mg	29399	13899
LEADFRAME			mg	supplier	ALLOY	Silicon (Si)	7440-21-3		0.328	mg	6365	3009
LEADFRAME			mg	supplier	ALLOY	Magnesium (Mg)	7439-95-4		0.076	mg	1475	697
LEADFRAME			mg	supplier	COATING	Silver(Ag)	7440-22-4		1.038	mg	20143	9523
DIE ATTACH	Other organic materials	1.474	mg	supplier	GLUE	Epoxy resin A	9003-36-5		0.103	mg	69878	945
DIE ATTACH			mg	supplier	GLUE	Epoxy resin B	68475-94-5		0.059	mg	40027	541
DIE ATTACH			mg	supplier	GLUE	Silver(Ag)	7440-22-4		1.135	mg	770014	10413
DIE ATTACH			mg	supplier	GLUE	Lactone	96-48-0		0.059	mg	40027	541
DIE ATTACH			mg	supplier	GLUE	Polyoxypropylenediamine	9046-10-0		0.059	mg	40027	541
DIE ATTACH			mg	supplier	GLUE	2,6-Diglycidyl phenyl allyl ether oligomer	proprietary		0.059	mg	40027	541
BONDING WIRE	Other inorganic materials	0.456	mg	supplier	BONDING WIRE	Gold (Au)	7440-57-5		0.456	mg	1000000	4183
ENCAPSULATION	Other inorganic materials	45.957	mg	supplier	MOLDING COMPOUND	Epoxy Resin	proprietary		4.136	mg	89997	37945
ENCAPSULATION			mg	supplier	MOLDING COMPOUND	Silica fused (SiO2)	60676-86-0		38.604	mg	840003	354165
ENCAPSULATION			mg	supplier	MOLDING COMPOUND	Phenol Resin	proprietary		2.987	mg	64996	27404
ENCAPSULATION			mg	supplier	MOLDING COMPOUND	Carbon Black	1333-86-4		0.23	mg	5005	2110
FINISHING	Other inorganic materials	2.72	mg	supplier	CONNECTION COATING	Tin (Sn)	7440-31-5		2.72	mg	1000000	24954