

PART INFORMATION		
Mfg Item Number		MPC8270VVUPEA
Mfg Item Name		FTBGA 480 37*37*1.7P1.27
SUPPLIER		
Company Name		Freescale Semiconductor Inc
Company Unique ID		14-141-7928
Response Date		2018-03-21
Response Document ID		5222K10951D012A1.47
Contact Name		Freescale Semiconductor Inc
Contact Title		Product Technical Support
Contact Phone		1-800-521-6274
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Authorized Representative		Daniel Binyon
Representative Title		EPP Customer Response
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URL for Additional Information		www.freescale.com
DECLARATION		
EU RoHS		Yes
Pb Free		Yes
HalogenFree		Yes
Plating Indicator		e1
EU RoHS Exemption(s)		
MANUFACTURING		
Mfg Item Number		MPC8270VVUPEA
Mfg Item Name		FTBGA 480 37*37*1.7P1.27
Version		ALL
Weight		10.255600
UoM		g
Unit Volume		EACH
J-STD-020 MSL Rating		4
Peak Processing Temperature		260 C
Max Time at Peak Temperature		40 seconds
Number of Processing Cycles		3

RoHS	
RoHS Directive	2011/65/EU
RoHS Definition	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) of homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material of Cadmium
RoHS Legal Definition	Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part(s) identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a RoHS restricted substance) in excess of the applicable quantity limit identified below. If a homogeneous material within the part(s) contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that 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 with European Union member state laws that implement the RoHS Directive. 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 Suppliers liability and the Companys remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Suppliers Standard Terms and Conditions of Sale applicable to such part(s) shall apply.
RoHS Declaration	1 - Item(s) do not contain RoHS restricted substances per the definition above
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemption List Version	2012/51/EU
List of Freescale Accepted Exemptions	6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight 6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight 6(c) : Copper alloy containing up to 4% lead by weight 7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) 7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications 7(c)-I : Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound 7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher 7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC 7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors 15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%		ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.024						g					
Epoxy Die Attach		Solvents, additives, and other materials	1,3,5-Triazine-2,4-diamine, 6-[2-(2-methyl-1H-imidazol-1-yl)ethyl]	38668-46-1		0.00020282	g	8451	0.8451		19	0.0019
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.0031099	g	129579	12.9579		303	0.0303
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.00020282	g	8451	0.8451		19	0.0019
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.02048446	g	853519	85.3519		1997	0.1997
Solder Balls - Lead Free	0.8139						g					
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.0000057	g	7	0.0007		0	0
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-39-2		0.0000057	g	7	0.0007		0	0
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000407	g	5	0.0005		0	0
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.0056973	g	7000	0.7		555	0.0555
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00001465	g	18	0.0018		3	0.0001
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00004558	g	56	0.0056		4	0.0004
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.03060264	g	37600	3.76		2983	0.2983
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.77752436	g	955307	95.5307		75814	7.5814
Die Encapsulant, Halogen-free	0.3717						g					
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.022302	g	60000	6		2174	0.2174
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003717	g	10000	1		362	0.0362
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.007434	g	20000	2		724	0.0724
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.018585	g	50000	5		1812	0.1812
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.319662	g	860000	86		31169	3.1169
Organic Substrate	8.9455						g					
Organic Substrate		Metals	Aluminum, metal	7429-90-5		0.00044728	g	50	0.005		43	0.0043
Organic Substrate		Solvents, additives, and other materials	Other Aromatic hydrocarbon compounds	-		0.00013418	g	15	0.0015		13	0.0013
Organic Substrate		Metals	Other barium compounds	-		0.0000984	g	11	0.0011		9	0.0009
Organic Substrate		Metals	Copper, metal	7440-50-8		8.90399287	g	995360	99.536		868226	86.8226
Organic Substrate		Metals	Cupric oxide	1317-39-0		0.01234479	g	1380	0.138		1203	0.1203
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00136866	g	153	0.0153		133	0.0133
Organic Substrate		Solvents, additives, and other materials	Other inorganic compounds.	-		0.00027731	g	31	0.0031		27	0.0027
Organic Substrate		Metals	Manganese, metal	7439-96-5		0.00044728	g	50	0.005		43	0.0043
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.00086771	g	97	0.0097		84	0.0084
Organic Substrate		Solvents, additives, and other materials	Other organic compounds.	-		0.0026576	g	298	0.0298		259	0.0259
Organic Substrate		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.00000895	g	1	0.0001		0	0
Organic Substrate		Plastics/polymers	Plastic: PI - Polyimide	-		0.00847139	g	947	0.0947		826	0.0826
Organic Substrate		Metals	Zirconium, metal	7440-67-7		0.00889183	g	994	0.0994		867	0.0867
Organic Substrate		Plastics/polymers	Proprietary Material-Other acrylic/epoxy resin mixture	-		0.00518839	g	580	0.058		505	0.0505
Organic Substrate		Plastics/polymers	Other non-halogenated polymers	-		0.0002952	g	33	0.0033		28	0.0028
Silicon Semiconductor Die	0.076						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00152	g	20000	2		148	0.0148
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.07448	g	980000	98		7262	0.7262
Bonding Wire, PdCu	0.0245						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.02392058	g	976350	97.635		2332	0.2332
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.00004155	g	1696	0.1696		4	0.0004
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00053787	g	21954	2.1954		52	0.0052

LINKS	
MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX
FAQ	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/MPC8270VVUPEA_IPC1752_v11.xml

http://www.freescale.com/mcds/MPC8270VVUPEA_IPC1752A.xml