

**PART INFORMATION**

Mfg Item Number	XPC8260VVIHBC
Mfg Item Name	TBGA 480 37.5SQ*1.7P1.27

**SUPPLIER**

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-06-21
Response Document ID	5218K00080D052A1.33
Contact Name	Freescale Semiconductor Inc
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**DECLARATION**

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e1
EU RoHS Exemption(s)	

**MANUFACTURING**

Mfg Item Number	XPC8260VVIHBC
Mfg Item Name	TBGA 480 37.5SQ*1.7P1.27
Version	ALL
Weight	10.060850
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
Peak Processing Temperature	245 C
Max Time at Peak Temperature	30 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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Epoxy Die Attach	0.0313						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		0.0026452	g	8451	0.8451	26	0.0026
Epoxy Die Attach		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.0046582	g	129579	12.9579	403	0.0403
Epoxy Die Attach		Plastics/polymers	4,4'-Dihydroxydiphenyl	92-88-6		0.0028452	g	8451	0.8451	26	0.0026
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.02671514	g	853519	85.3519	2655	0.2655
Dam	0.018						g				
Dam		Solvents, additives, and other materials	Methylhexahydrophthalic anhydride	25550-51-0		0.0014707	g	63726	6.3726	114	0.0114
Dam		Solvents, additives, and other materials	Substituted phthalic anhydride	34090-76-1		0.0014707	g	63726	6.3726	114	0.0114
Dam		Plastics/polymers	2,2'-(1,1-methylethylene)bis(4,1-phenyleneoxyethylene)bisoxirane	1675-54-3		0.00104726	g	58181	5.8181	104	0.0104
Dam		Plastics/polymers	3,4-Epoxyhexanecarboxylic acid (3,4-epoxycyclohexylmethyl) ester	2386-67-0		0.00104726	g	58181	5.8181	104	0.0104
Dam		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00007578	g	4210	0.421	7	0.0007
Dam		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.0038826	g	21570	2.157	38	0.0038
Dam		Glass	Cristobalite	14464-46-1		0.00007112	g	3951	0.3951	7	0.0007
Dam		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.01307618	g	726455	72.6455	1299	0.1299
Die Encapsulant, Filler	0.2854						g				
Die Encapsulant, Filler		Solvents, additives, and other materials	Methylhexahydrophthalic anhydride	25550-51-0		0.04064381	g	142410	14.241	4039	0.4039
Die Encapsulant, Filler		Antimony/Antimony Compounds	Antimony pentoxide	1314-60-9		0.00043352	g	1519	0.1519	43	0.0043
Die Encapsulant, Filler		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00046064	g	1614	0.1614	45	0.0045
Die Encapsulant, Filler		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27810-48-6		0.04064381	g	142410	14.241	4039	0.4039
Die Encapsulant, Filler		Glass	Silica, vitreous	60676-86-0		0.20321822	g	712047	71.2047	20198	2.0198
Bonding Wire	0.0312						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.0312	g	1000000	100	3101	0.3101
Solder Balls - Lead Free	0.8166						g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000572	g	7	0.0007	0	0
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000572	g	7	0.0007	0	0
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000408	g	5	0.0005	0	0
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.0057162	g	7000	0.7	568	0.0568
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.0000147	g	18	0.0018	1	0.0001
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00004573	g	56	0.0056	4	0.0004
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.03070416	g	37600	3.76	3051	0.3051
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.78010369	g	955307	95.5307	77538	7.7538
Silicon Semiconductor Die	0.06005						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.001201	g	20000	2	119	0.0119
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.058849	g	980000	98	5849	0.5849
Organic Substrate	8.8183						g				
Organic Substrate		Metals	Barium	7440-39-3		0.00312168	g	354	0.0354	310	0.031
Organic Substrate		Metals	Chromium, metal	7440-47-3		0.00001764	g	2	0.0002	1	0.0001
Organic Substrate		Metals	Copper, metal	7440-50-8		8.38913096	g	951332	95.1332	833856	8.33856
Organic Substrate		Metals	Cupric oxide	1317-38-0		0.23968139	g	27180	2.718	23823	2.3823
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00273367	g	310	0.031	271	0.0271
Organic Substrate		Solvents, additives, and other materials	Other inorganic compounds.	-		0.00012346	g	14	0.0014	12	0.0012
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.01731914	g	1964	0.1964	1721	0.1721
Organic Substrate		Solvents, additives, and other materials	Other organic compounds.	-		0.03074941	g	3487	0.3487	3056	0.3056
Organic Substrate		Metals	Zinc, metal	7440-66-6		0.00007055	g	8	0.0008	7	0.0007
Organic Substrate		Metals	Zirconium, metal	7440-67-7		0.00328923	g	373	0.0373	326	0.0326
Organic Substrate		Plastics/polymers	Formaldehyde, polymer with 4,4'-(1,1-methylethylene)bisphenol	25085-75-0		0.00660491	g	749	0.0749	656	0.0656
Organic Substrate		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.02174593	g	2466	0.2466	2161	0.2161
Organic Substrate		Plastics/polymers	Other non-halogenated polymers	-		0.10371203	g	11761	1.1761	10308	1.0308

## LINKS

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

IPC1752 XML LINKS

[http://www.freescale.com/mcdfs/XPC8260VVIHBC\\_IPC1752\\_v11.xml](http://www.freescale.com/mcdfs/XPC8260VVIHBC_IPC1752_v11.xml)

[http://www.freescale.com/mcdfs/XPC8260VVIHBC\\_IPC1752A.xml](http://www.freescale.com/mcdfs/XPC8260VVIHBC_IPC1752A.xml)