

Eris is dedicated to preserving our planet.

Eris Technology Inc. cares about future generation and our planet; furthermore, we care about our customers. It's everyone's responsibility to think about our future. Therefore, we dedicate ourselves to Green issue and manufacturing Green products.

What is Green?

Green products are those which are compliant with RoHS standards of EU. All the Green products from Eris Technology Inc. are certified by SGS and comply with the directive of RoHS and contain no hazardous substances such as lead and halogens.

RoHS Directive

RoHS (Restriction of Hazardous Substances) directive was adopted in February 2003 by the EU (European Union). The RoHS directive took effect on 1 July 2006, and is required to be enforced and become law in each member state. This directive restricts the use of six hazardous materials; they are Lead, Mercury, Cadmium, Hexavalent chromium (Cr6+), Polybrominated biphenyls (PBB) and Polybrominated diphenyl (PBDE).

Applied to various types of electronic components and electrical equipments, the maximum permitted concentrations are 0.1% or 1000 ppm (except for cadmium, which is limited to 0.01% or 100 ppm) by weight of homogeneous material. This means that the limits do not apply to the weight of the finished product, or even to a component, but to any single substance that theoretically could be separated mechanically, for instance, the sheath on a cable or the tinning on a component lead.

Products manufactured by Eris Technology comply with the RoHS standard and are certified by SGS. All the required documentation and technical support of our Green products can be provided to our customers on demand.

Pb-free and Electronic Components

As required by RoHS directive, lead has been eliminated from the products but exempted from the requirement while being applied in the process of high melting temperature solder (as indicated in the Annex 7 of the directive).

Because there are no advanced materials and techniques in soldering, lead is still broadly used especially in high melting temperature solder process. Lead will be detected in our Green Product due to the high temperature soldering process which is exempted from the requirement. Except for the soldering process, lead is not applied in our Green Products and the products will comply with the RoHS directive strictly.

Current Effort and Accomplishment

Though the exemption is effective until 2010, our high melting temperature solder is certified by SGS annually and we are now targeting not only the lead-free solder but also Green Molding Compound that contains no halogen and antimony. The RoHS directive has not stipulated the limit of the halogen and antimony in molding compound; however, Eris prescribes a 900 p.p.m limit to the sum of all halogens and 800 p.p.m. to a single one so far. The quantity of all hazardous substances in our products will be smaller but higher and the limit will be set to be lower annually. In 2008, most types of packages molded with Green Compound are available and we are currently developing more products with lead-free solder and Green Compound.

Eris's Green Products

Despite the directive has not enforced the halogen-free and antimony-free compound yet, Eris Technology are now working on the Green Compound molding in all types of packages. In addition to all surface mounting devices (SMD) and axial packages, TO and ITO series are also available now. The testing result of composition of hazardous substances in Green Products are certified by SGS and shown as below:

Test Item(s)	Unit	Method (Refer to)	MDL	Result			Limit
				No.1	No.2	No.3	
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2 nd CDV (111/95/CDV) Determination of Cadmium by ICP-AES	2	n.d.	n.d.	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321/2 nd CDV (111/95/CDV) Determination of Lead by ICP-AES	2	22	370	10	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321/2 nd CDV (111/95/CDV) Determination of Mercury by ICP-AES	2	n.d.	n.d.	n.d.	1000
Hexavalent Chromium Cr (VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2 nd CDV (111/95/CDV) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry	2	n.d.	---	---	1000
Hexavalent Chromium Cr (VI)	mg/kg	With reference to IEC 62321/2 nd CDV (111/95/CDV) Determination of Hexavalent Chromium for metallic samples by Spot test/Colorimetric Method.(Note 8)	0.02 mg/kg with 50 cm ² surface area	---	Negative	Negative	#

Halogen-Fluorine (F) CAS No.007782-41-4	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content	50	n.d.	n.d.	n.d.	-
Test Item(s)	Unit	Method (Refer to)	MDL	Result			Limit
				No.1	No.2	No.3	
Halogen-Chlorine (Cl) CAS No.007782-50-5	Mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content	50	84	n.d.	n.d.	-
Halogen-Bromine (Br) CAS No.007782-95-6	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content	50	n.d.	n.d.	n.d.	-
Halogen-Iodine (I) CAS No.007782-56-2	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content	50	n.d.	n.d.	n.d.	-
Sum of PBBs	mg/kg	With reference to IEC 62321/2 nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	5	n.d.	n.d.	n.d.	1000
Sum of PBDEs (Mono to Nona) (Note4)			5	n.d.	n.d.	n.d.	1000

Description

SGS test result regarding the six restricted substances by RoHS and halogen-free compound.

NO.1 : MIXED ALL PARTS OF BODY; NO.2 : SILVER COLORED METAL PIN

Note: 1. Unit: mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. "-" = Not Regulated

5. "---" = Not Conducted

6. Negative = Absence of Cr(VI) coating / surface layer

7. # indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.

To assure the qualification of our Green Products, Content Declaration is required as being our material supplier. All the official documents about Green issues can be provided to the clients upon requested. Despite the RoHS directive may alter, we will make most effort to guarantee the quality, reliability and satisfaction.

Potential Effect

1. Manufacture process may be altered and this will be noticed in the Process Change Notice (PCN) once the manufacture process is changed.
2. Part number and the price may vary in some Green products
3. Special order is required for certain models.
4. Shipping duration may vary and depend on the desired model.

For more information about our Green Policy, please contact your sales representatives. It will be our pleasure to hear from you.