

ISOLA GLOBAL CERTIFICATE OF COMPLIANCE

This Global Certificate of Compliance confirms the following:

1. Substance Restrictions

There are various laws which seek to restrict the use of certain substances. We note the following:

Per- and Polyfluoroalkyl Substances (PFASs)

To the best of our knowledge, as of the date of this statement, Isola products comply with all national and international legislation relating to PFASs. Isola does not manufacture or sell any products in which PFASs are an intentionally added material ingredient.

Polycyclic Aromatic Hydrocarbons (PAHs)

To the best of our knowledge, as of the date of this statement, Isola products comply with all national and international legislation relating to PAHs. Isola does not manufacture or sell any products in which PAHs are an intentionally added material ingredient.

Persistent organic pollutants (POPs)

Isola's products meet the requirements of the Stockholm Convention and are compliant with Regulation 2019/1021 on persistent organic pollutants (recast).

China VOC regulations

To the best of our knowledge and understanding Isola's products and associated packing materials are not subject to VOC regulation: GB 30981-2020: Limit of harmful substances of industrial protective coatings; GB 33372-2020: Limit of volatile organic compounds content in adhesive; GB 38507-2020: Limits of volatile organic compounds (VOCs) in printing ink; and GB 38508-2020: Limits for volatile organic compounds content in cleaning agents.

Rare Earth Metals

We confirm that to the best of our knowledge, none of the products manufactured by Isola contain the following elements: scandium, yttrium, lanthanum, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, and lutetium.

Short-Chain Chlorinated Paraffins (SCCPs)

SCCPs are persistent, bioaccumulative, and toxic to aquatic organisms at low concentrations. Isola's products neither contain nor are manufactured with SCCPs.

Ozone-Depleting Substances (ODS)

Isola's products neither contain nor are manufactured with Class I or Class II Ozone Depleting Chemicals

("ODCs"). "ODCs" are those substances listed in the Internal Revenue Code ("IRC") §§ 4682 and Treas. Reg. § 52.4682-3(e)(2), The "ODC weight" is defined in Treas. Reg. § 52.4682-3(d) of the products, components, and other electronic goods supplied. The business complies with the requirements of Regulation 1005/2009 on substances that deplete the ozone layer.

Asbestos Declaration

Isola's products do not contain asbestos: Asbestos (CAS No. 1332-21-4); Ferroactinolite asbestos (CAS No. 12172-67-7); Anthophyllite asbestos (CAS No. 17068-78-9); Amosite asbestos (CAS No. 12172-73-5); Chrysotile asbestos (CAS No. 12001-29-5); Crocidolite asbestos (CAS No. 12001-28-4); or Tremolite asbestos (CAS No. 14567-73-8).

IEC 61249-2-21:2003 "Halogen-Free"

Isola's halogen-free line of products, which includes TerraGreen[®], TerraGreen[®] 400G, IS 580G and IS 550H, are compliant with IEC 61249-2-21 and meets the EU RoHS requirements. Any residues that may remain do not exceed the maximum concentration value of 1000ppm.

Isola FR-4 materials contain "brominated epoxy polymers" with substantial amounts of Bromine (>>1000 ppm). These products include: 185HR, 370HR, DE104, ED130UV, FR402, FR406, FR406N, FR408, FR408HR, G200, I-Speed, IS400, IS400HR, IS410, IS415 and IS420. Isola's RF/Microwave materials also contain substantial amounts of bromine (>>1 000 ppm) of an additive brominated flame retardant.

Additional Substances of Concern:

Some of Isola's copper (Cu) foils may contain trace amounts of antimony (Sb) and nickel (Ni). Very low amounts of antimony (Sb) are used within the chemical composition of a nodular bath treatment applied on the treated side of the copper foil. During processing, Sb is reduced to metal form and becomes bonded to the copper foil.

Nickel (Ni) is used in very low amounts within the chemical composition of the "flash" passivation, which is performed on the untreated side of the copper foil. Passivation is used to prevent copper oxidation and allows the copper foil to be processed by users. This surface passivation is removed by the PCB fabricator to facilitate resin bonding to the copper during cleaning or soft etching. Generally, this cleaning step is done prior to any machining operations.

To the best of our knowledge Isola's products do not use or contain red phosphorous. However, some Isola's products do use organic phosphorus compounds as part of the chemical flame retardant system and there may be a trace impurity within the copper foil.

2. Packing

Directive 94/62/EC on packaging and packaging waste ("Packaging Directive") restricts the presence of certain heavy metals in packaging (Hg, Pb, Cr6+, Cd) The Packaging Directive also includes requirements for registration, reporting, and recycling in each EU Member State where a company is considered the producer. To the best of our current knowledge all product(s) shipment material(s) are compliant with the Packaging Directive.

3. Databases

Isola products meet the requirements of the automotive Industry. The GADSL (Global Automotive Declarable Substance List) is maintained by a global team from the automotive, automotive parts supplier (tier supplier), and chemical/plastics industries who have organized the Global Automotive Stakeholders Group (GASG). GADSL only covers substances that are expected to be present in a material or part that remains within the vehicle or part at the point of sale. Please contact your local Isola sales representative for an IMDS (International Material Data System) Material Data Sheet (MDS). For additional information: <https://www.gadsl.org/> for additional information.

Isola products meet the needs and requirements of Aerospace and Defense Declarable Substances List ("AD-DSL") The AD-DSL is used for supplier reporting of chemical substances that are included in its products, are used in the production of those products or are required for operation or maintenance of those products. The Aerospace and Defense Declarable Substance List (AD-DSL) is a list of approximately 1,200 chemical substances that are commonly used in the manufacture, repair and ongoing maintenance of aerospace and defense products, and which are controlled under a variety of regulations impacting the industry.

Please contact your local Isola sales representative for an IPC-1754 declaration. For additional information: <https://www.jaeg.com/chemicalrpt>.

To the best of our knowledge, as of the date of this statement, Isola's products meet the requirements of commercial and consumer electronics [IEC 62474 Declarable Substances List](#). The IEC 62474 Declarable Substance List (DSL) is an internationally recognized list of regulated substances and substance groups that specifies to the electrical and electronics industry and its suppliers what substances, substance groups and material classes a manufacturer should declare to downstream manufacturers, if present in the product above a reporting threshold. Substances on the DSL are declarable, but not always hazardous or restricted. The database is maintained by TC 111: Environmental Standardization for Electrical and Electronic Products and Systems. This database is updated to coinciding with updates to the EU REACH Candidate List. Review Isola's posted EU REACH for updates. For additional information review Safety Data Sheets and Testing Reports: available at <https://www.isola-group.com/resources/materials-documentation/>.

4. Further information

Electrical and Electronic Equipment ("EEE")

Isola products are not classified as EEE under Directive 2012/19/EU on waste electrical and electronic equipment ("WEEE Directive")

Disposal

At end-of-life Isola's products may contain cross-linked brominated epoxy resins, glass fiber, and metals. Each of which can be recovered by the effective chemical recycling processes.

Products at the end of their life, as well as any scrap, must be disposed following all local and national legal regulating provisions.



Uyghur Forced Labor Prevention Act

We are committed to responsible business practice. We have adopted and uphold strict responsible manufacturing standards to assure safe working conditions and respect for all workers and their communities. We expect the same from each of our suppliers. We do not source materials from Xinjiang Province, People’s Republic of China. We are concerned about allegations that ethnic Uyghurs are subject to forced labor in factories outside of Xinjiang Province, People’s Republic of China, including those supplying the tech industry. We do not tolerate forced labor anywhere in our supply base and will address it if identified. For additional information review of our Corporate and Social Responsibility programs at <https://www.isola-group.com/about-us/corporate-responsibility/>.

General Statements

This Global Certificate of Compliance has been compiled based upon information and data provided by raw material suppliers, subcontractors and other third parties.

Information may not have been provided to Isola by our subcontractors’ raw material suppliers and other third parties because it is considered confidential, proprietary and or a “trade secret”.

Isola does not provide any warranty, express or implied, with respect to the information provided within this document. This Global Certificate of Compliance does not modify the terms of any agreement under which customers purchased any Isola products, including without limitation, Isola’s standard terms and conditions of sale. Isola’s terms and conditions of sale or any relevant agreement(s), as applicable, shall continue to apply. For information regarding the exclusive, limited warranties applicable to Isola products, please see Isola’s standard terms and conditions of sale, which are printed on our sales documentation and available at www.isola-group.com.

Thank you for using Isola products. Should you have any addition questions, please reach out to your local Isola sales representative.

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