Physix

Design: Alberto Meda

SUSTAINABILITY

For Vitra, environmental, economic and social conduct begin with the individual. In order to develop, manufacture and market dependably long-lasting and environmentally sound products, Vitra complements this key factor of individual initiative with regular audits of the company's standards by independent review entities.

VITRA AND THE ENVIRONMENT

Vitra has manufactured furniture designs by Charles & Ray Eames and George Nelson since 1957. Building on this foundation over the years, the company has developed a wide range of furnishings for the office, for the home and for public spaces in collaboration with progressive designers.

Since 1997 Vitra has implemented a certified system for quality and environmental management according to the standards of **DIN EN ISO 9001** and **DIN EN ISO 14001**. Vitra is committed on all levels to reducing the use of energy, raw materials and other resources – thereby reducing the environmental impact caused by emissions, waste water and waste materials. The most important contribution of Vitra to environmental sustainability, however, is the high quality and enduring design of its long-lasting products. The unusually long life cycle of Vitra products is ensured by aesthetics that do not follow temporary trends and fashions, and also by a careful selection of materials and the use of innovative technologies. The longevity of Vitra products is increased by the replaceability of wearing parts.

Trucks are to leave Vitra production sites preferably with a full load; the use of returnable packaging is being constantly increased. Preference is given to rail transport; overseas cargo is sent by ship and special transport is avoided. Vitra uses environmentally friendly materials for packaging and minimizes the volume of packaged products to make efficient use of the loading space in truck trailers and shipping containers.

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Design: Alberto Meda

MATERIALS

Aluminium is light and durable. Die-cast aluminium components by Vitra are principally made out of remelted alloys which are largely recycled material. When remelting recycled aluminium there is an energy saving of 94% compared to the production of primary aluminium. Aluminium components are 100% recyclable.

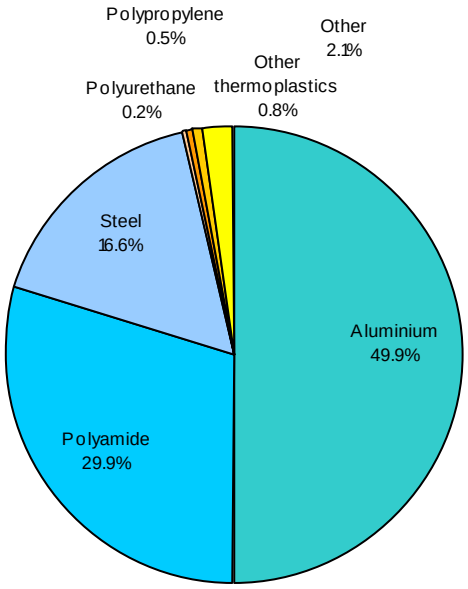
Steel is a stable compound of iron and carbon with various added alloys. As the technical properties such as strength and elasticity can be adjusted according to the steel grade, the material can be used flexibly in many different forms. At the end of the product life cycle, steel components can be melted down and completely recycled.

Polyurethane – Vitra uses this material primarily as permanently elastic soft foam in the production of covers. CFCs have not been used to expand polyurethane upholstery since as early as 1989. Polyurethane foams are mostly recycled thermally to generate energy or as a composite.

Polypropylene is a very strong thermoplastic synthetic material. With the addition of a small amount of new material, polypropylene can be 100% recycled. In order to facilitate single-variety separation and recycling, all plastic components that are large enough are labelled according to ISO 11469:2000.

Polyamide is a very strong thermoplastic synthetic material. With the addition of a small amount of new material, polyamide can be 100% recycled. In order to facilitate single-variety separation and recycling, all plastic components that are large enough are labelled according to ISO 11469:2000.

Other thermoplastics are used for special applications. Vitra principally prefers thermoplastic to duroplastic synthetics, as with the addition of a small amount of new material, they are 100% recyclable. In order to facilitate single-variety separation and recycling, all plastic components that are large enough are labelled according to ISO 11469:2000.



Physix, aluminium base deep black coated
Cover fabrics will be separated into synthetic materials and natural fibres, depending on the material.

RECYCLING, PACKAGING AND REUSE OF PRODUCTS

Once a product reaches the end of its life cycle, it must be disposed of.

Recyclability:
Physix is 98 % recyclable when fully separated. Vitra understands the term recyclability to signify only melting down and reuse of raw materials. Polyurethane and wood products, for example, cannot be melted down. However, these materials can be used thermally to generate energy or can be crushed and recycled as materials.

Proportion of recycled material:
Physix contains 55 % recycled material. Using recycled materials conserves valuable resources. With their proportion of recycled material, among other things, Vitra products can contribute to a good rating in certification

programs for sustainable buildings (for example LEED). We will be happy to assist you should you require more information on this subject.

Packaging:
A polyethylene dustcover prevents soiling. The base is protected by a net stocking. A polyethylene soft foam serves to protect the edges.

Certificates:

GREENGUARD GOLD Indoor Air Quality Certified

Blue Angel for low-emission upholstery furniture (RAL-UZ 117)

De Projectinrichter

www.deprojectinrichter.com
088 - 650 12 34

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Polyester is used first and foremost for cover fabrics and non-woven fabrics at Vitra. All cover fabrics undergo strict quality control tests and satisfy the ecological criteria of the German Consumer Goods Ordinance. Polyester is a thermoplastic and can be remelted. However, cover fabrics are generally used thermally or as a material.

RECYCLING, PACKAGING AND REUSE OF PRODUCTS

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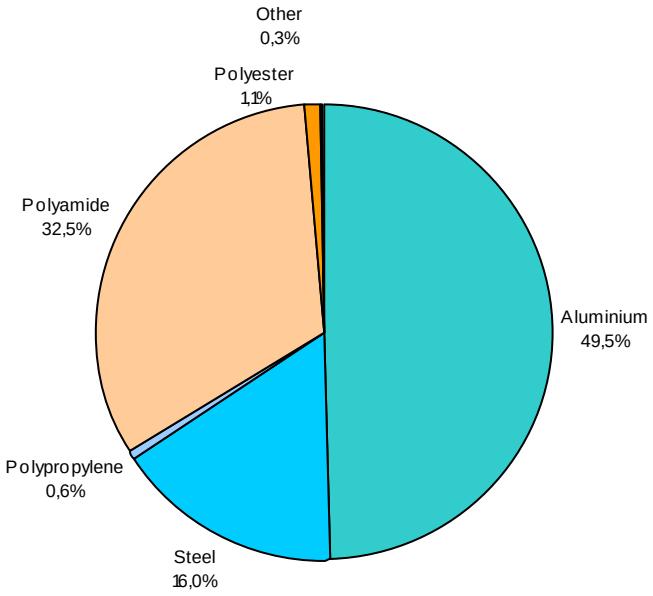

Physix Studio, aluminium base polished, FleeceNet
Cover fabrics will be separated into synthetic materials and natural fibres, depending on the material.

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Packaging:
A polyethylene dustcover prevents soiling. The base is protected by a net stocking, the backrest by a small packing of Styrofoam that is wrapped in cardboard.

Certificate:
GREENGUARD GOLD Indoor Air Quality Certified

Blue Angel for low-emission upholstery furniture (RAL-UZ 117)

(The "Blue Angel" applies to all versions with standard fabric covers. It does not apply to leather covers and versions treated with special flame retardants.)

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