

# ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ACCORDING TO ISO 14025 & 15804+A2

PRODUCT: ONYX III 3430/10

**casala**

# Environmental Product Declaration (EPD)

An Environmental Product Declaration (EPD) is a Type III environmental declaration that quantifies environmental information about the life cycle of a product. This can enable comparisons between products fulfilling the same function. The methodology to produce an EPD is based on the full product life cycle assessment (LCA), following the ISO 14040 series of standards.

## ONYX III 3430/10

Onyx is a functional modern chair program which is available in numerous variations. This makes Onyx extremely adaptable for many different locations and applications. From waiting areas to restaurants, seminar rooms to breakout areas, food courts to meeting and conference rooms. Onyx can be supplied in a variety of versions, with four different leg units for a wide range of uses. There is even an Onyx beam seat. The cantilever model comes with a choice of either a wooden or a CPL seat unit. For the other models, a plastic seat can be supplied also.



Casala's production facility has a solar park which produced 4.5t Kwh in 2023. The remaining energy needed is produced by European Wind as stated by the supplier. The production facility and almost all 3<sup>rd</sup> parties are ISO 9001 & 14001 certified.

Variant	shell plastic, with armrests
Base	Welded steel chassis
Finish	Powder coating
Technical life span	15 years
Dimensions (HxLxW)	84 x 53 x 50 cm
Weight	8.2 kg
Packaging weight	0.1 kg

## GLOBAL WARMING POTENTIAL

To quantify and compare results, we use the Global Warming Potential (GWP) expressed in kg CO<sub>2</sub>-equivalent. This is a measurement method for finding out the amount of energy required to emit 1 tonne of a gas, which is absorbed over a 100-year period. The greater the GWP, the more a particular gas warms the earth.

To comply with EN ISO 15804+A2, Casala uses the 'cradle to grave' assessment for their EPD files. The assessment covers the full life cycle of a product; from production phase to use, followed by recycling or disposal. Other EPD files often only use the 'cradle to gate' assessment, which only covers the production phase.

GWP per unit (Cradle to Grave)	24.160 kg CO <sub>2</sub> eq.
GWP per unit (Cradle to Gate)	26.518 kg CO <sub>2</sub> eq.
Average GWP for contract chairs according to the Furniture Industry Research Association (Cradle to Gate)	27.000 kg CO <sub>2</sub> eq.

## THE ASSUMED PERCENTAGE OF WASTE PROCESSING

Landfill	4.86 %
Incineration	35.44 %
Recycling	53.00 %
Re-use	6.69 %

## DOCUMENT INFORMATION

Calculation number	ReTHiNK-129485
Declaration owner	Casala
Publisher	Casala
Program operator	Casaro
LCA software	NIBE - R<THINK LCA
Status	Valid

