

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

ACCORDING TO ISO 14025 & 15804+A2

PRODUCT: ONYX IV 3530/10

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 IV 3530/10

Onyx has been expanded with a cross base chassis on glides or on wheels. Onyx IV chairs are functional conference chairs with a shell in beech, CPL or plastic. The seat is wide, comfortable and can be provided with different types of upholstery. Onyx IV is also suitable as an office chair to fit in with your office design.

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 3rd 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) | 83.5 x 53 x 49.5 cm |
| Weight | 11.7 kg |
| Packaging weight | 0.1 kg |

GLOBAL WARMING POTENTIAL

To quantify and compare results, we use the Global Warming Potential (GWP) expressed in kg CO₂-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) | 47.122 kg CO ₂ eq. |
| GWP per unit (Cradle to Gate) | 56.644 kg CO ₂ eq. |
| Average GWP for contract chairs according to the Furniture Industry Research Association (Cradle to Gate) | 27.000 kg CO ₂ eq. |

THE ASSUMED PERCENTAGE OF WASTE PROCESSING

| | |
|--------------|---------|
| Landfill | 5.16 % |
| Incineration | 31.09 % |
| Recycling | 58.63 % |
| Re-use | 5.10 % |

DOCUMENT INFORMATION

| | |
|--------------------|--------------------|
| Calculation number | ReTHiNK-129735 |
| Declaration owner | Casala |
| Publisher | Casala |
| Program operator | Casaro |
| LCA software | NIBE - R<THiNK LCA |
| Status | Valid |

