

FACTSHEET

Chair Seat

CHALLENGE

Producing a Cradle to Cradle® inspired chair seat for a - re-usable - classic furniture label with Design for Disassembly features allowing for up cycling after the useful life.

SOLUTION

Using a natural fibre reinforced bio plastic material called Sizopreg® enabled the development of an extreme thin layered chair seat with surprising optics and properties.

RESULTS

- Development of a very strong bio based seating
- CleanTech process technologies.
- The 3 or 4 layered seat built-up allows for very strong loads (entire test program successfully finalized in December 2013)
- The fully bio based HTL® Sizopreg and Biopaper pulp layers can either be repaired , up cycled or safely composted.



Figure 1



Figure 2

Key Facts

Partners *Zwartz Laminating & Converting - Oldenzaal
Tekton BV - Groot Ammers
Weder - Harderwijk
Recyvac – Denekamp
Connex Innovations – Tilburg*

Technologies *thermo lamination
vacuum forming
thermo welding*

Features *Cradle to Cradle® inspired
HTL® Sizopreg®
Design for Disassembly
patent pending*

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