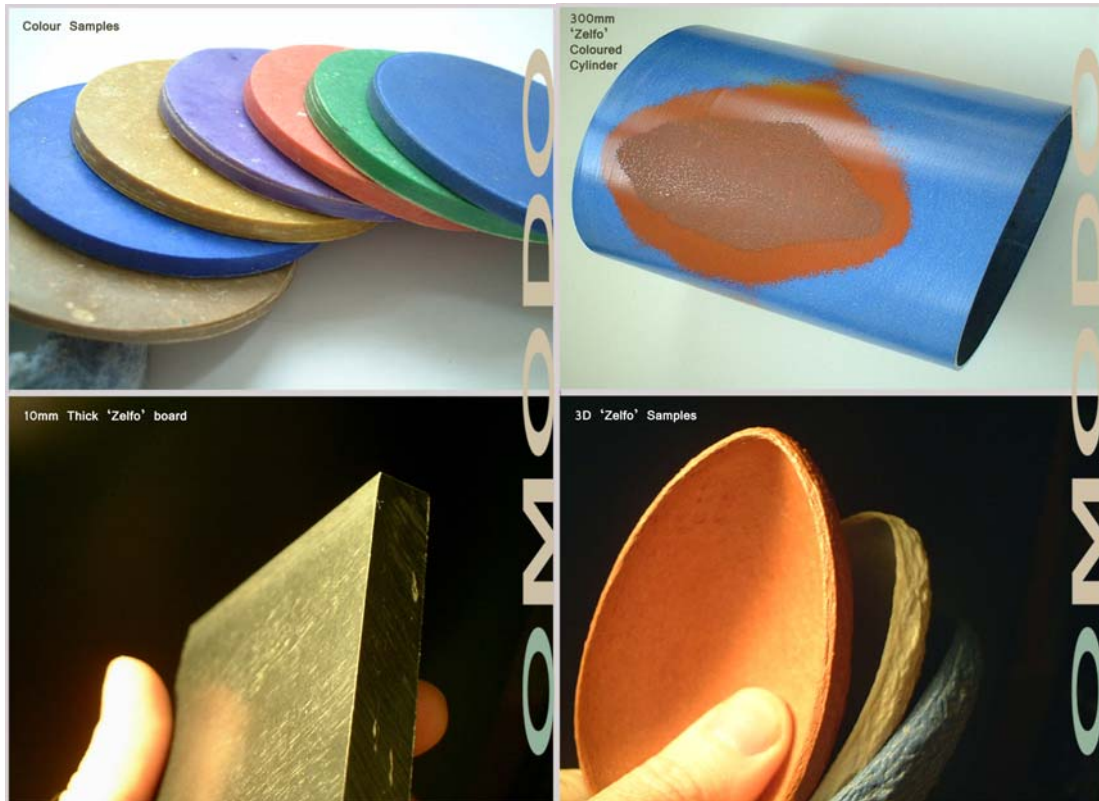


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'Zelfo' an Ecological Structural Material Solution

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1.0 Overview:

Zelfo was developed over a period of 10 years by Zellform GesmbH in Austria. Omodo GmbH was founded in Germany in 2004 with the objective of delivering ecological products made from Zelfo to the marketplace.

Zelfo is formed using cellulose based organic materials, i.e. Hemp/Flax/old paper etc to form 3 dimensional objects. Ecology, structural integrity and contemporary aesthetics are prime points that Zelfo brings to the world of contemporary materials.

Zelfo uses renewable sources and is entirely without chemical additives. There is almost no waste generated during the material production and any waste material can be reused in the process. All products are fully recyclable. In terms of price Zelfo competes equally with other formable materials such as fibreglass whilst offering additional benefits that provide a competitive edge in the market. Future opportunities for Zelfo also lie in the mixture of other modern binder materials such as carbon fibre, to produce hybrid products that reduce the demand for synthetic or oil based raw materials.

Zelfo brings a broad variety of qualities demanded by the modern materials market. The material offers thin sections that allow the transmission of light, whilst also offering structural qualities when produced in thicker sections. The surface can be rough or smooth, matt or glazed, and with the use of natural earth colours the entire material can be coloured throughout, eliminating the need for surface coatings.

Zelfo advantages compared to 'equivalent' current materials:	
Current Materials:	Zelfo qualities:
Wood	Mouldable/Sprayable, Additional 'Colour element'
Chipboard	Non carcinogenic, Superior working conditions
MDF	Non oil based, Totally biodegradable
Metal	Lighter, Self coloured
Paper	Greater rigidity, Equal translucency
Glassfibre	Superior working conditions, No odour problem, No Skin contamination problem

There exists a potential for Zelfo to reach a near ubiquitous presence in the market place. Prospective markets exist for licensing of the material for manufacturers of board products and other mass produced moulded or sprayed products. With this in mind Omodo proposes to become a competence centre for Zelfo, developing new products and supporting license holders.

2.0 Production Methods & Products:

'Zelfo' manufactured product is placed firmly in the new generation of design solutions. Versatile and lightweight 'Zelfo' adopts forms and shapes previously reserved only for high tech, ecologically problematic materials.

The Zelfo material manufacture has similarities to the paper making process. The unique 'know how' (the basis of the patent) lies in the pulp making system and our ability to apply the material to a desired form. Our process uses high yield refining systems that require minimal energy input to manufacture superior production ready material. We need no synthetics and our only 'additives' at present are natural earth colours. Our water treatment is completely closed thereby minimising production costs. All waste material is reusable.

Zelfo/Hempstone products made throughout the material development phase:



Product Credits:

Seat: Bartosch and Fürst Design, Austria

Lamp: Erwig, Austria

Guitar: Adam Wehsely Swiczinsky, Austria

Thermal Products: Zellform In conjunction with Sommerhuber Ceramics

3.0 Study Material:

"Zelfo" - An engineering material fully based on renewable resources

Michael A. SVOBODA

Sourced from: Joanneum Research - Institute of Polymer Technology, A-8700 Leoben – Austria, University of Leoben - Institute of Material Science and Testing of Plastics, A-8700 Leoben – Austria, Zellform GmbH, A-4731 Prambachkirchen - Austria

Pending Study Material:

Further scientific studies have been proposed and are currently under review.

Omodo GmbH: Zelfo related business:

<p>Main Production: 'Omodo Products' Lighting, Furniture & Lifestyle Products</p> <p>Additional Production: Special Products manufactured on behalf of other manufacturers</p> <p>Licensing: Sale of Licenses to other manufacturers authorising the production of Zelfo / Hempstone by 3rd Parties</p>

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