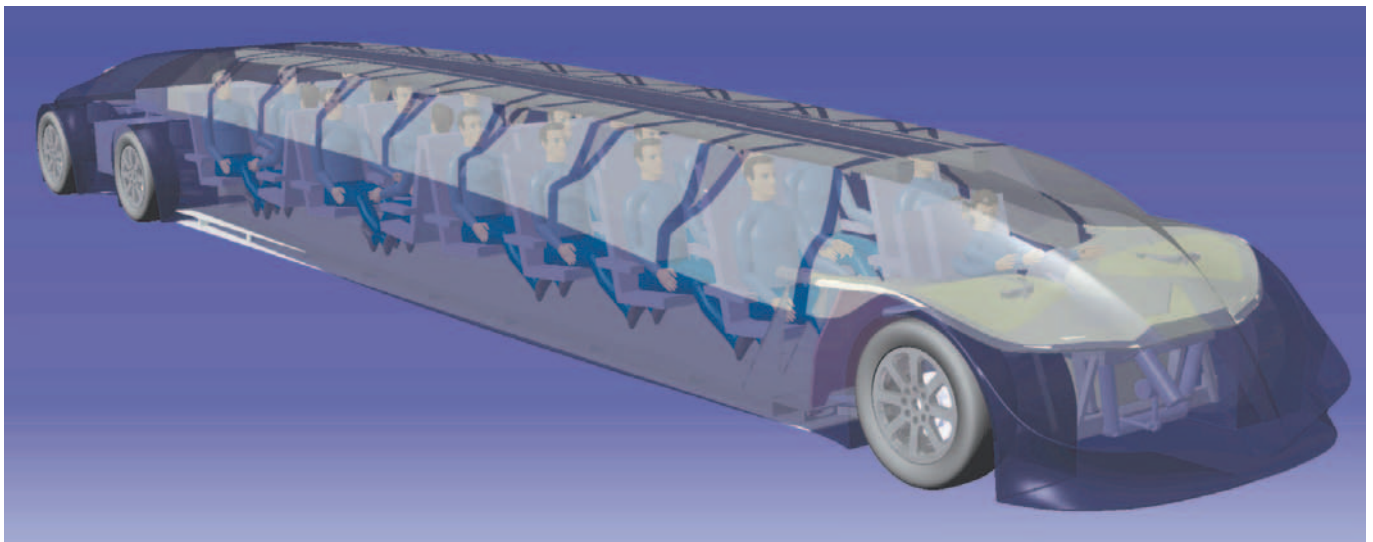




## Lantor Soric® in Superbus project

Lantor Soric® will be used as core material in the dutch Superbus project. Lantor Soric suits perfect in this light weight full composite application.



A new type of public transport is being developed in the Netherlands by the TU Delft which relies on lightweight composite construction and will be demonstrated at the Beijing Olympics in August 2008.

In the search for a non-polluting, fast, economic and appealing new means of public transportation, a project has started in the Netherlands for the realisation of an electric vehicle called Superbus.

The vehicle should be safe, sustainable, comfortable, and drive at high speed (cruising at 250 km/h) on dedicated and relatively cheap infrastructure. The Superbus will drive at conventional speed on existing roads, therefore being able offer a alternative for transport by car and trains.

In order to be as efficient as possible the structure must be as light as possible. For this purpose, the vehicle has a composite chassis a combination of thermoset and thermoplastic bodywork and polycarbonate glazing.



*Airco unit Superbus*

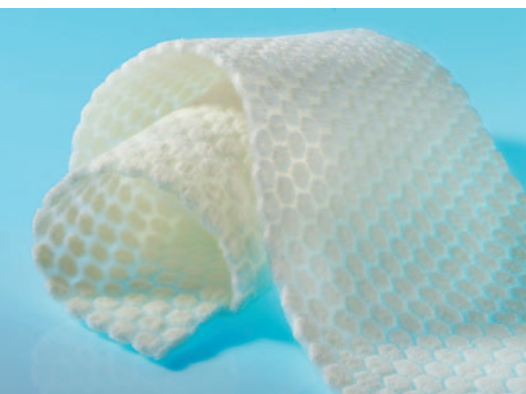
Soric® Flexible Core of Lantor B.V., the Netherlands, is used for the floor skins, the airco units and the front and

back bodywork. This pressure stable polyester non-woven flexible core material is ideal for thin-walled components of 3-6 m which places Soric® Flexible Core between classic sandwich structures and monolithic designs.

Soric® Flexible Core has some unique properties with which one can combine the classic core property of weight saving with drapeability, use in thin-walled composite parts, flow support in vacuum infusion, RTM Light and RTM, constant wall thickness even in complex shaped parts which supports uniform hardening and therefore optimise production cycle times and surface quality support when using Soric® TF.

# Lantor Soric® Flexible Core

**Lantor Soric® is a core material and flow medium in one, designed for closed mould processes.**



**Lantor Soric** is a polyester nonwoven material with a compression resistant cell structure. The pressure resistant cells, separated by channels, contain synthetic micro spheres. These cells do not absorb resin and therefore limit the total resin uptake. Since the cells are pressure resistant, they create thickness in the laminate even when pressure is applied by vacuum bag. The channels facilitate resin flow and form a pattern of cured resin with good mechanical properties and excellent bonding to outer skins. Because of the unique properties and characteristics, Lantor Soric can be used as a thin core, as an interlaminar flow medium and as print blocker (Soric TF). Soric can be used in closed mould processes like vacuum infusion, RTM light, RTM etc.



**Soric® SF** is the general purpose grade, balancing resin flow and surface quality. Soric SF is therefore especially

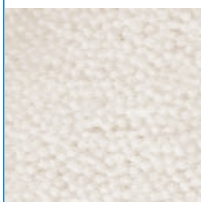
suitable for thinner laminates.

*Soric SF is available in thicknesses of 2 and 3 mm.*



**Soric® XF** maximises weight reduction in structural core applications. Soric XF offers the fastest resin flow for the lowest resin consumption and is therefore ideal for thicker laminates.

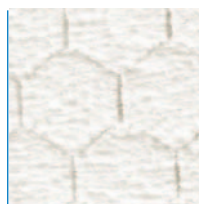
*Soric XF is available in thicknesses of 2, 3, 4, 5 and 6 mm.*



**Soric® TF** is the ideal product for the most demanding cosmetic and surface finish requirements. Soric TF can be used as a core and also as

a print blocker for infused laminates.

*Soric TF is available in thicknesses of 1.5, 2 and 3 mm.*



Development product: **Soric® LRC** is the latest development in the Soric grades and is a special grade for Low Resin Consumption

and is therefore suitable in weight critical laminates.

*Soric LRC (development grade) is available for testing and evaluation in thicknesses of 2 and 3 mm.*

In infused laminates, the use of Soric greatly improves overall product performance and process efficiency. By acting as both a thin core and print barrier, as well as an integral infusion medium substantial savings in time are achieved with substantial reduction in “disposables”.



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