

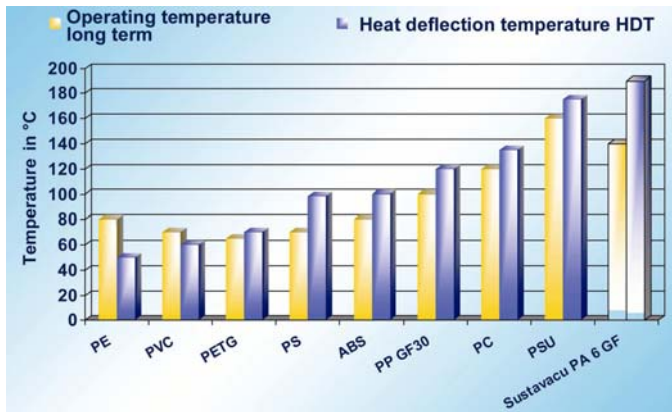
SUSTAnews

Vacuum formable nylon sheets

Sustavacu® PA 6 GF - A new sheet material made of fibreglass reinforced, modified nylon

Sustavacu® PA6 GF offers excellent characteristics in comparison to other vacuum formable materials:

- **High rigidity**
- **High stiffness**
- **High viscosity even at temperatures below 0° C**
- **High continuous working temperature (140° C) and deformation resistance at high temperature (see chart)**
- **Excellent chemical resistance to oils, fatty substances and fuel**



Continuous working temperature and deformation resistance at high temperature

There are many advantages over other materials in use, opening the gate to completely new applications. The mechanical stiffness of the material permits the design of light, thin walled parts, and even allows for the substitution of metals, resulting into an enormous reduction of weight of the part.

This is an especially important factor in the automobile industry and offers the following possible applications:

- **Engine compartment components, such as housings and components for noise reduction or air suction tubes.**

- **Floor coverings.**
- **Fenders and side linings of trucks and construction machines**

Other possible applications will certainly be found in the field of transport containers, and all kinds of covers and coatings.

Besides vacuum formable applications, this material can also be machined for the production of finished parts. Had fibreglass reinforced nylon sheets been previously available in thickness from 8 mm upwards, this newly developed material allows for production of thicknesses from 2 to 6 mm. This means lower material costs for finished parts up to 6 mm thickness.

Sustavacu® PA6 GF is available ex stock in standard sheet size of 2000x1000 mm and in thickness of 2 to 6 mm. Other dimensions are produced on request.

We shall be pleased to give you further details regarding possible dimensions, characteristics of the material and processing possibilities..



Even at the extreme draw ratio of 5, an even wall thickness is maintained on the part made of Sustavacu® PA 6 GF