

npsp our strength is composites

NPSP MAKES SUSTAINABLE, FIBRE-REINFORCED PLASTICS FOR CONSTRUCTION, DESIGN, TRANSPORT AND SIGNMAKERS SECTOR. TOGETHER WITH OUR CLIENTS NPSP REALIZES SURPRISINGLY AESTHETIC AND SMART SOLUTIONS FOR TECHNICAL ISSUES.

Nedtrain



OUR AMBITION

- To inspire engineers and designers to develop beautiful solutions in fibre-reinforced composites.
- To make high-tech production technology available for everyday solutions in fibre-reinforced plastics.
- To be at the forefront of making the living environment more sustainable by reducing environmental impact and provide expert advice.

NPSP plays a leading role in making composites sustainable. **We work on all fronts to reduce the environmental impact further and further.** We use natural raw materials and innovative production techniques that anticipate legislation and make products that last longer and generate less waste at competitive prices. You recognize NPSP's environmentally friendly composites by the Nabasco® label:

Van.Eko E-Scooter



Velopa



 **nabasco**
nature based composites

Vlaander



The Nabasco® label guarantees that production methods are environmentally friendly and technically and economically feasible.

Depending on the composition of the Nabasco material, the environmental benefit can be as much as five times higher than comparable solutions.

Vlaander



nabasco N-8010 data



Nabasco® is an environmentally friendly, biobased and circular composite. By using natural fibres and a bio-resin instead of petroleum based resin, a biobased composite with very low CO₂ footprint is created. Little energy is used for production. Moreover, the raw materials come from Europe and production also takes place in Europe.

Available as standard as sheet material and in moulded parts:

| | |
|---------------------|---|
| Base Flax | the standard material with flax fibres |
| Base Reed | the standard material with reed fibers |
| Base Textile | the standard material with cotton textile fibers(recyclate) |
| Base Sisal | the standard material with sisal fibers |
| Base Jute | the standard material with jute fibers |
| Fire Reed | extra fire resistant variant of Base Reed |

Of course other solutions and combinations are possible on request.

| N-8010 | | Base Flax | Base Reed | Base Textile | Base Sisal | Base Jute | Fire Reed | |
|--------------------------|-------------------|-----------|-----------|--------------|------------|-----------|-----------|---------------|
| PROPERTY | UNIT | VALUE | VALUE | VALUE | VALUE | VALUE | VALUE | TEST STANDARD |
| DENSITY | g/cm ³ | 1,7 | 1,71 | 1,7 | 1,65 | 1,65 | 1,86 | ISO-1183 |
| Bending strength | MPa | 40 | 40 | 50 | 40 | 40 | 30 | ISO-178 |
| Bending stiffness | Gpa | 8,0 | 8,0 | 8,0 | 7,8 | 7,8 | 10,0 | ISO-178 |
| Impact resistance | kJ/m ² | 6 | 6 | 6 | 6 | 6 | 6 | ISO-179 |
| Moisture absorption | % | 1,2 | 0,9 | 0,5 | 1,8 | 1,3 | 0,7 | ISO-62 |
| % Bio-circular | % | 85 | 85 | 85 | 85 | 85 | 66 | n.v.t. |
| Flammability conforms to | mm | – | – | – | – | – | 1,0 | UL94-Vo |
| Fire protection | class | | | | | | B-S1-Do | EN 13501 |

NB: Values measured at room temperature. All values are indicative.

The patented material is very suitable for both indoor and outdoor applications. It is strong, retains its shape, provides long service life and is easy to maintain.

In addition, it can be well processed as a sheet material using various techniques such as sawing, drilling, milling, engraving, laser cutting and water cutting. A high quality pvc-free foil is available for the prints on foil. These films are more environmentally friendly than conventional films and also have a higher uv-resistance.

NPSP BV

www.npsp.nl

info@npsp.nl

twitter.com/NPSP_BV