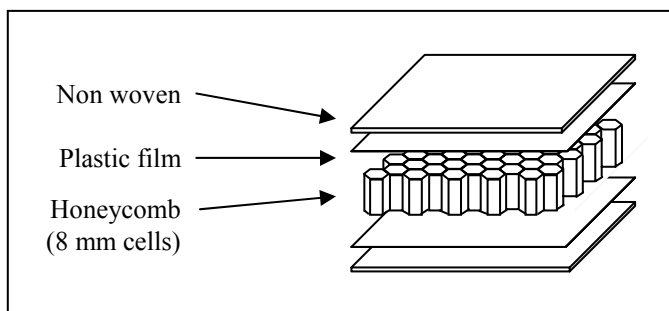


nidaplast[®] 8

DESCRIPTION

- Extruded polypropylene honeycomb designed as a core for structural sandwich panels.
- 8 mm hexagonal mesh.
- Open faces covered with a flexible non-woven polyester fabric and a plastic film.



PRESENTATION

Standard size of the panels : 2500 x 1200 mm

Standard thicknesses : 5 - 10 - 15 - 20 - 23 - 28 - 40 - 50 - 60 - 70 - 80 and 90 mm

Other dimensions on request.

PHYSICAL AND MECHANICAL PROPERTIES

Density (ISO 845)	d	~ 80 kg/m ³
Compressive strength (at break, at 20°C) (ISO 844)	Rc	~ 1,3 MPa
Compressive modulus	E	~ 15 MPa
Ultimate perpendicular tensile strength (at break) (NF T56-130)	Rt	~ 0,5 MPa
Shear strength (at 20°C) (ISO 1922)	Rs	~ 0,5 MPa
Shear modulus	G	~ 8 MPa

Rigidity in bending

Rigidity depends on the facings of the sandwich panel. The facings must be very tightly bonded to the core. The mechanical behaviour of the panel is due to this bonding.

☞ *Heat insulation*

- with 20 mm, $R \sim 0,3 \text{ m}^2 \cdot \text{°C}/\text{W}$ (soit $\lambda \sim 0,067 \text{ W}/\text{m} \cdot \text{°C}$)
- with 100 mm, $R \sim 0,6 \text{ m}^2 \cdot \text{°C}/\text{W}$ (soit $\lambda \sim 0,14 \text{ W}/\text{m} \cdot \text{°C}$)

For more insulation, it is possible to get foam in the honeycomb.

☞ *Fire reaction*

- Burns
- Possibility of M1 classification on the sandwich panel depending on the faces of the panel.

☞ *Chemical resistance*

- Very good.

☞ *U.V. resistance*

- Bad for the standard quality.
- Possibility of reinforced grades.

WORKING UP

All detailed information about the cutting, shaping, gluing & laminating processes are explained in the technical data sheet « Working of **nidaplast**[®] ».

NOTA : The indicated directions can serve as a guide to use the product but cannot be considered as a guarantee of a good working up. Additionally application, utilization and/or transformation of the products escape our control possibilities. As a consequence, they exclusively remain the responsibility of the user and/or the transformer