

## CERTIFICATIONS



## ADVANTAGES

- ENHANCED FEATURES
- SUPERIOR SHEAR STRENGTH
- ABLE TO WITHSTAND TEMPERATURES UP TO 140°
- BOASTS SUPERIOR RESISTANCE AND RIGIDITY DESPITE BEING LIGHTWEIGHT
- WELL-SUITED TO ALL SANDWICH NEEDS
- LOW RESIN ABSORPTION
- SELF-EXTINGUISHING
- HIGH THERMAL INSULATION CAPACITY
- EXCELLENT RESISTANCE TO CHEMICALS

# MYcell-H

## HIGH TEMPERATURE STRUCTURAL FOAM CORE

MYcell-H is a closed cell cross-linked PVC foam that is resistant to high temperatures and has a high strength-to-weight ratio, rendering it a smart choice for composite material structures.

MYcell-H stands out thanks to its superior mechanical properties, along with elevated resistance to chemicals, low water/resin absorption, thermoformability, insulating properties, and excellent workability. It is also compatible with the most popular resins used in composite structures, including epoxy, polyester and vinylester.

MYcell-H is available in all standard models and in a range of finishes that meet specific needs.

### FIELDS OF APPLICATION

MYcell-H technical features and high performance render it well-suited to a variety of composite applications. MYcell-H can be used as a core material in the marine, aeronautical, automotive, wind energy and sports equipment sectors, in addition to various industrial fields.

### SUSTAINABLE GRADES

**ecoGreEN** eco-variant of MYcell reduces the carbon footprint by incorporating raw materials produced using energy from renewable sources.

**ecoBlue** eco-variant of MYcell takes carbon footprint reduction a step further. MYcell EcoBlue incorporates raw materials derived from agricultural and industrial waste, all produced using energy from renewable sources.



TECHNICAL DATA SHEET  
TYPICAL VALUES

# MYcell-H

HIGH TEMPERATURE STRUCTURAL FOAM CORE

| FOAM                      |                  |                   | H060         | H080         | H100        | H130         |
|---------------------------|------------------|-------------------|--------------|--------------|-------------|--------------|
| Density                   | ISO 845<br>(min) | kg/m <sup>3</sup> | 60<br>(54)   | 80<br>(72)   | 100<br>(90) | 130<br>(120) |
| Compressive strength      | ISO 844:2014 B   | MPa               | 1,01         | 1,63         | 2,40        | 2,94         |
| Compressive modulus       | ISO 844:2014 B   | MPa               | 65           | 96           | 160         | 207          |
| Shear strength            | ISO 1922         | MPa               | 0,86         | 1,26         | 1,73        | 2,32         |
| Shear modulus             | ISO 1922         | MPa               | 21           | 29           | 46          | 59           |
| Shear elongation at break | ISO 1922         | %                 | 29           | 32           | 29          | 24           |
| Tensile strength          | ASTM D 1623      | MPa               | 1,98         | 2,84         | 3,23        | 3,85         |
| Tensile modulus           | ASTM D 1623      | MPa               | 97           | 138          | 133         | 166          |
| HDT                       | DIN 53424        | °C                | 135          | 135          | 135         | 135          |
| Standard block dimensions |                  | mm                | 1120<br>2400 | 1005<br>2150 | 940<br>2030 | 850<br>1900  |