Maricell CORE MATERIALS
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## CERTIFICATIONS

# MYcell-M

HIGH RESISTANCE STRUCTURAL FOAM CORE

## ADVANTAGES

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

MYcell-M is a closed cell cross-linked PVC foam with a high strength-to-weight ratio, rendering it ideal for all composite material needs.
MYcell-M stands out thanks to its superior chemical resistance, low water/resin absorption, thermo-formability, insulating properties, and workability. It is also compatible with the most popular resins used in composite structures, including epoxy, polyester and vinylester.
MYcell-M is available in a wide range of formats and finishes that meet specific customer needs.

## FIELDS OF APPLICATION

MYcell-M technical features and high performance make it an excellent choice for a variety of composite applications. MYcell-M 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.

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TECHNICAL DATA SHEET
TYPICAL VALUES

# MYcell-M

HIGH RESISTANCE STRUCTURAL FOAM CORE

| FOAM | | | M040 | M048 | M060 | M080 | M100 | M130 | M200 | M250 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Density** | ISO 845 (min) | kg/m³ | 40 (35) | 48 (43) | 60 (54) | 80 (72) | 100 (90) | 130 (120) | 200 (180) | 250 (225) |
| **Compressive strength** | ISO 844:2014 B | MPa | 0,52 | 0,62 | 0,98 | 1,60 | 2,05 | 3,22 | 5,07 | 6,88 |
| **Compressive modulus** | ISO 844:2014 B | MPa | 37 | 44 | 67 | 97 | 121 | 183 | 300 | 384 |
| **Shear strength** | ISO 1922 | MPa | 0,47 | 0,52 | 0,79 | 1,20 | 1,48 | 2,44 | 3,44 | 4,37 |
| **Shear modulus** | ISO 1922 | MPa | 15 | 16 | 21 | 30 | 36 | 55 | 77 | 98 |
| **Shear elongation at break** | ISO 1922 | % | 6 | 7 | 18 | 19 | 25 | 32 | 35 | 35 |
| **Tensile strength** | ASTM D 1623 | MPa | 0,71 | 0,98 | 1,82 | 2,74 | 3,18 | 4,35 | 6,26 | 7,19 |
| **Tensile modulus** | ASTM D 1623 | MPa | 68 | 71 | 100 | 146 | 162 | 227 | 358 | 439 |
| **HDT** | DIN 53424 | °C | 100 | 115 | 125 | 125 | 125 | 125 | 125 | 125 |
| **Standard block dimensions** | | mm | 1330 2850 | 1270 2730 | 1150 2450 | 1020 2180 | 950 2050 | 850 1900 | 750 1600 | 700 1500 |