Maricell CORE MATERIALS
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CERTIFICATIONS

MYcell-F

HIGH IMPACT STRUCTURAL FOAM CORE

ADVANTAGES

- HIGHLY RESISTANT TO DYNAMIC IMPACT
- LIGHTWEIGHT AND FLEXIBILE
- SUPERIOR SHEAR STRENGTH
- BOASTS SUPERIOR RESISTANCE AND RIGIDITY DESPITE BEING LIGHTWEIGHT
- LOW RESIN ABSORPTION
- COMPATIBLE WITH RESINS USED IN THE MARINE SECTOR
- SELF-EXTINGUISHING
- THERMO-FORMABLE
- SUPERIOR RESISTANCE TO CHEMICALS

MYcell-F is a closed cell cross-linked PVC foam for composite structures requiring a high-performance core material.
MYcell-F combines superior shear strength with excellent mechanical properties that render it a high-performance, reliable material. It is flexible, thermo-formable, lightweight, strong, and able to absorb dynamic impacts.
This lightweight core material boasts low resin absorption and extraordinary mechanical properties that render it ideal for use in the marine sector.
MYcell-F replaces efficiently SAN and linear PVC foams.

FIELDS OF APPLICATION

MYcell-F is a high-performance core material, making it ideal for constructing high-speed boats. FLEXcell technical properties make it the perfect choice for marine industry needs.

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-F

HIGH IMPACT STRUCTURAL FOAM CORE

FOAM			F060	F080	F100	F130
Density	ISO 845 (min)	kg/m³	60 (54)	80 (72)	100 (90)	130 (120)
Compressive strength	ISO 844:2014 B	MPa	0,77	1,31	1,70	2,42
Compressive modulus	ISO 844:2014 B	MPa	58	91	103	150
Shear strength	ISO 1922	MPa	0,77	1,06	1,60	1,99
Shear modulus	ISO 1922	MPa	19	25	39	47
Shear elongation at break	ISO 1922	%	39	51	49	52
Tensile strength	ASTM D 1623	MPa	1,45	1,83	2,00	3,14
Tensile modulus	ASTM D 1623	MPa	52	69	87	121
Standard block dimensions		mm	1140 2450	1060 2270	970 2080	880 1900