



CERTIFICATIONS



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
- **ECO-FRIENDLY**

MYcell-M^{eco}

MYCELL ECO-M
PVC FOAM-CORE FOR COMPOSITE MATERIALS

MYcell ECO-M is a closed cell cross-linked PVC foam, derived from eco-friendly processes and raw materials, with a high strength-to-weight ratio, rendering it ideal for all composite material needs.

MYcell ECO-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 ECO-M is available in a wide range of formats and finishes that meet specific customer needs.

FIELDS OF APPLICATION

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

To ensure that the products provided by the Company are appropriate for the intended application, it is strongly recommended that customers create test panels and carry out appropriate tests. The tests should be conducted under conditions as close as possible to those that the final product will experience. The Company does not offer any warranty of fitness for purpose other than what is specified in writing by the Company. The Company reserves the right to modify specifications without prior notice, and customers should verify that they are relying on the most current information published on the Company's website. If you have any inquiries, please contact the Technical Department.



TECHNICAL DATA SHEET TYPICAL VALUES

MYcell-M^{eco}

MYCELL ECO-M
MATERIALI D'ANIMA IN SCHIUMA DI PVC PER COMPOSITI

FOAM			M040E	M048E	M060E	M080E	M100E	M130E	M200E	M250E
Density	ISO 845 (min)	kg/m ³	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	N/A	N/A
Indicative resin uptake (2 surfaces)		kg/m ²	0,96	0,73	0,72	0,53	0,54	0,51	0,36	/
Standard block dimensions		mm	1330 2850 84	1270 2730 80	1150 2450 78	1020 2180 72	950 2050 68	850 1900 58	750 1600 48	700 1500 47

No warranty is made on the basis of these data. Customers have to verify the data needed for the specific application, performing the necessary tests on the product.

Maricell may update the data of this report. Please check the last version (1.1 dated 03/23).