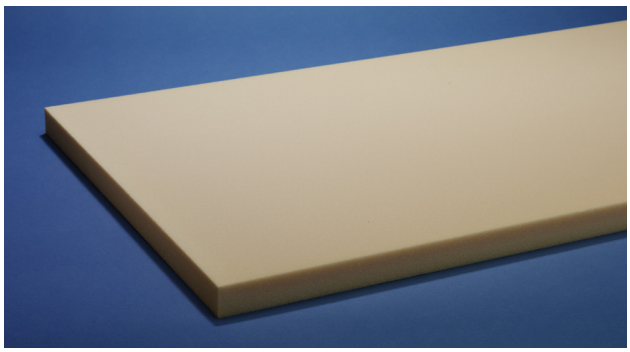


TECHNICAL DATA

Divinycell HM

THE HIGH PERFORMANCE SANDWICH CORE

Divinycell HM is a high performance structural core designed for fast marine hulls where higher toughness is required.
Divinycell HM combines a very high shear strength with an outstanding shear elongation. As a result, Divinycell HM is an extremely tough product, capable of absorbing high dynamic impacts and slamming loads.

Divinycell HM´s elongation exceeds the requirements of ISO 12215, GL and ABS rules to allow for reduced safety factors in structural calculations, providing a lighter, yet strong structure.
Divinycell HM's high compressive properties provide excellent resistance to denting and skin wrinkling of thin skins.
Divinycell HM offers a high operating temperature, thus reducing the risk of print through on dark hulls.

MECHANICAL PROPERTIES DIVINYCELL® HM

Property	Test Procedure	Unit		HM80	HM100	HM130
Compressive Strength[1]	ASTM D 1621	MPa	Nominal	1.4	2.0	3.0
			Minimum	1.15	1.65	2.4
Compressive Modulus[1]	ASTM D1621-B-73	MPa	Nominal	100	135	170
			Minimum	80	115	145
Shear Strength	ASTM C 273	MPa	Nominal	1.15	1.6	2.2
			Minimum	0.96	1.4	1.9
Shear Modulus	ASTM C 273	MPa	Nominal	27	35	50
			Minimum	22	28	40
Shear Strain	ASTM C 273	%	Nominal	41	41	41
Density	ISO 845	kg/m^3	Nominal	80	100	130

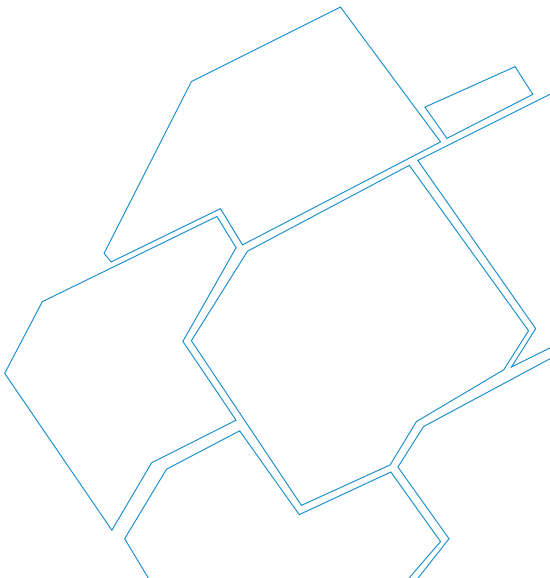
All values measured at +23°C
1. Properties measured perpendicular to the plane

Nominal value is an average value of a mechanical property at a nominal density.
Minimum value is a minimum guaranteed mechanical property a material has independently of density.

Maximum processing temperature for Divinycell HM is +110°C. It is dependent on time, pressure and process conditions. Therefore users are advised to contact Diab Technical Services to confirm that Divinycell HM is compatible with their particular processing parameters.

PRODUCT CHARACTERISTICS

- Outstanding toughness and fatigue resistance
- Superior shear strength
- High compressive strength and stiffness
- Excellent chemical resistance
- High temperature resistance
- Compatible with all resins used in marine
- Low resin absorption



TECHNICAL CHARACTERISTICS

PHYSICAL CHARACTERISTICS DIVINYCELL® HM

Format		Unit	HM80	HM100	HM130
Plain sheets	Length	mm	2440	2160	1960
	Width	mm	1220	1070	970
	Max unbonded thickness[1]	mm	80	75	72
GS sheet	Length	mm	1220	1080	980
	Width	mm	813	1070	970

1. Minimum thickness is 3 mm

Divinycell HM is type approved by:

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