



TECHNICAL DATA

Divinycell MC

THE NEXT LEVEL OF LIGHTER SANDWICH CORE

Divinycell MC is the innovative next generation structural core with best in class mechanical properties to low weight. Divinycell MC's unique microcell structure renders substantial weight reduction of the laminate, thanks to lower core density in combination with exceptional low level of resin uptake. The very small cell size has proven to give 80% reduction of resin uptake.

Divinycell MC is a premium structural core, suitable for weight critical applications in marine, industry and aerospace. Other key features include excellent adhesion/peel strength, low water absorption and good thermal and acoustic insulation. The material is compatible with virtually all commonly used resins and manufacturing methods.

MECHANICAL PROPERTIES DIVINYCELL® MC

Property	Test Procedure	Unit		MC60	MC80
Compressive strength ¹	ASTM D 1621	psi	Nominal	173	247
			Minimum	131	203
Compressive Modulus ¹	ASTM D1621-B-73	psi	Nominal	12627	18142
			Minimum	9434	13788
Tensile Strength ²	ASTM D 1623	psi	Nominal	261	334
			Minimum	174	232
Tensile Modulus ²	ASTM D 1623	psi	Nominal	18578	22496
			Minimum	13062	15965
Shear Strength	ASTM C 273	psi	Nominal	115	167
			Minimum	91	138
Shear Modulus	ASTM C 273	psi	Nominal	3048	4209
			Minimum	2467	3483
Shear Strain	ASTM C 273	%	Typical	20	20
Density	ISO 845	lb/ft ³	Nominal	3,3	4,6
			Maximum	4,0	5,2
			Minimum	3,0	4,1

All values measured at +73,4°F

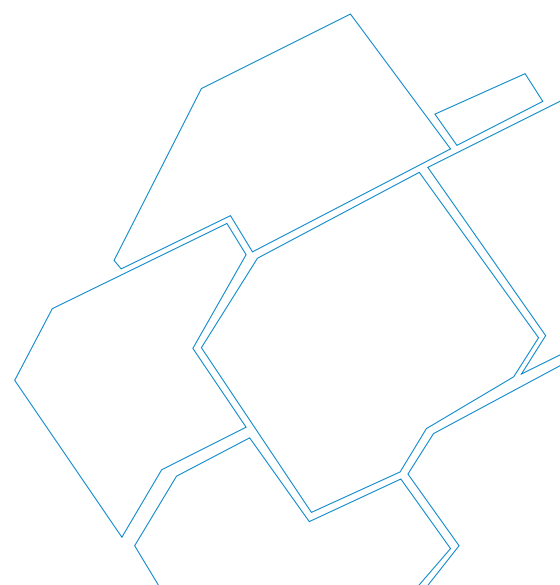
1. Properties measured perpendicular to the plane.

2. Properties measured perpendicular to the plane, ASTM D1623, sample geometri B due to limited thickness.

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.

PRODUCT CHARACTERISTICS

- Small cell size allowing for minimal resin uptake
- Good chemical resistance
- Provides superior mechanical properties to a low weight



TECHNICAL CHARACTERISTICS

PHYSICAL CHARACTERISTICS DIVINYCELL® MC

Format		Unit	MC60	MC80
Plain sheets	Length	inch	96,06	96,06
	Width	inch	48,03	48,03
GS sheet	Length	inch	48,03	TBD
	Width	inch	32,01	TBD
GS sheet	Length	inch	48,03	TBD
	Width	inch	48,03	TBD

Divinycell MC60 (MC80 pending) is type approved by:



Disclaimer:

This data sheet may be subject to revision and changes due to development and changes of the material. The data is derived from tests and experience. If not stated as minimum values, the data is average data and should be treated as such. Calculations should be verified by actual tests. The data is furnished without liability for the company and does not constitute a warranty or representation in respect of the material or its use. The company reserves the right to release new data sheets in replacement.

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Diab Group

Drottninggatan 7, 5th floor
SE-252 21 Helsingborg, Sweden
Tel +46 (0) 430 163 00
E-mail: info@diabgroup.com