



NEW

TECHNICAL DATA

Divinycell MC61

THE NEXT LEVEL OF LIGHTER SANDWICH CORE

Divinycell MC61 is a core suitable for weight critical applications especially in aerospace applications, available with comprehensive quality documentation and traceability per aerospace requirements. Its unique microcell structure renders substantial weight reduction of the laminate, thanks to lower core density in combination with exceptional low level of resin uptake.

Divinycell MC61 has very good dimension stability at elevated temperature. It is suitable for pre-preg processing typically used in aerospace, as well as wet resin systems and infusion. Furthermore, Divinycell MC61 is self-extinguishing according to FAR 25.853. In panels the foam core eliminates edge potting and sweep and sand.

MECHANICAL PROPERTIES DIVINYCELL® MC61

Property	Test Procedure	Unit		MC61
Compressive strength ¹	ASTM D 1621	MPa	Nominal	1.19
			Minimum	0.9
Compressive Modulus ¹	ASTM D1621-B-73	MPa	Nominal	87
			Minimum	65
Tensile Strength ²	ASTM D 1623	MPa	Nominal	1.8
			Minimum	1.2
Tensile Modulus ²	ASTM D 1623	MPa	Nominal	128
			Minimum	90
Shear Strength	ASTM C 273	MPa	Nominal	0.79
			Minimum	0.63
Shear Modulus	ASTM C 273	MPa	Nominal	21
			Minimum	17
Shear Strain	ASTM C 273	%	Typical	20
Density	ISO 845	kg/m ³	Nominal	53
			Maximum	59
			Minimum	48

All values measured at +23°C

1. Properties measured perpendicular to the plane.

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

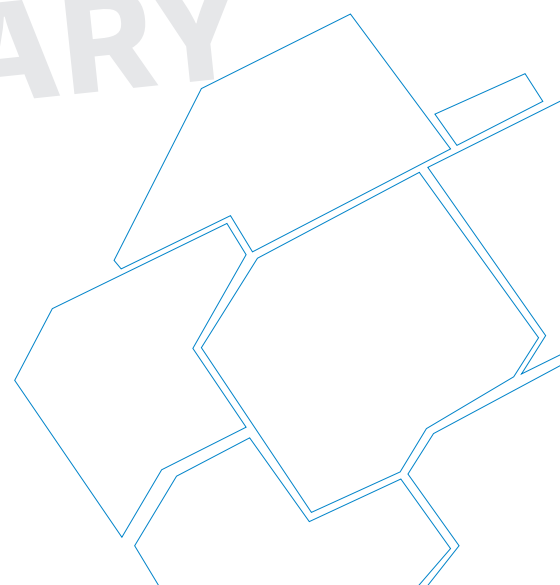
Nominal value is an average value of a mechanical property at a nominal density.

Minimum value is a minimum guaranteed mechanical property a material has independently of density.

PRELIMINARY

PRODUCT CHARACTERISTICS

- Small cell size allowing for minimal resin uptake
- Good chemical resistance
- Provides superior mechanical properties to a low weight
- Very good dimension stability at elevated temperature



TECHNICAL CHARACTERISTICS DIVINYCELL® MC61

FIRE, SMOKE & TOXICITY CHARACTERISTICS

Characteristic	Unit	Test method	MC61
Vertical Burn, 60 sec	-	FAR 25.853	Pass

PHYSICAL CHARACTERISTICS

Format		Unit	MC61
Plain sheets	Length	mm	2350
	Width	mm	1170

STORAGE OF PRODUCT

The shelf life of Divinycell is unlimited when it is stored in its original package on ambient indoor storage conditions and protected against UV exposure.

PRELIMINARY

Disclaimer:

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