

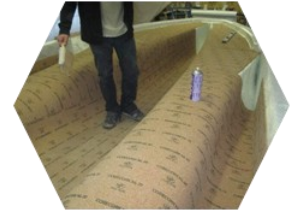
Versatile and Cost Effective

Thin core material and print through blocking for open and closed mold processes.

CORECORK[®] NL MAT is a thin core aligned with the new **green** classifications.

- Natural **Thin Core** material, higher stiffness and reduced weight due to less resin and glass consumption!
- The CORECORK[®] cells **do not Absorb Resin**.
- Excellent **Print Blocker**, reducing resin impregnation up to 40% of total weight, while increasing **Noise and Vibration Damping** on the surface!
- **Cost Savings** in production time and resin usage!

Like natural foam, Cork is extremely resistant to load preventing a thickness loss even when pressure is applied by vacuum bag or RTM. The natural channels in the NL Mat facilitate resin flow and form a lamination with good mechanical properties and excellent bonding to the outer skins.

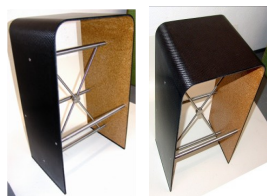


Courtesy of E3H, France



Courtesy of Ortema GmbH

<i>Physical data</i>		CORECORK [®] NL 10 MAT			CORECORK [®] NL 20 MAT		
Thickness	mm	-	3,0	5,0	1,0	3,0	5,0
Thickness loss at 0,8 Bar	%	-	-	-	< 3	< 3	< 3
Max. processing temperature	°C	-	150	150	150	150	150
Resin uptake	g/m ²	-	675	1100	170	459	750
Dry weight	g/m ²	-	405	675	200	600	1000
Density impregnated	kg/m ³	-	360	355	370	353	350



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<i>Mechanical Properties</i> NL Mat 3mm impregnated		NL 10 MAT 3 mm (1)	NL 20 MAT 3 mm (2)	test method
Flexural strength	MPa	66	57	ISO 1209-1
Flexural modulus	MPa	5250	4650	ISO 1209-1
Compression strength (10% strain)	MPa	3,1	2,0	ISO 844
Compressive modulus	MPa	37	25	ISO 844
Shear strength	MPa	3,6	3,3	ASTM C273-1
Shear modulus	MPa	36	33	ASTM C273-1
Water absorption	%	< 2,5	< 2,5	ASTM C272

(1) 2+2 (600g/m²) glass fiber, polyester resin, hand lay up
(2) 2+2 (600g/m²) glass fiber, epoxy resin, infusion



Courtesy of Azimut Yachts - Magellano 50

Dimensions x	Roll Thickness (mm)							
	1,0	2,0	2,5	3,0	3,5	4,0	4,5	5,0
Width 1000 mm & 1250 mm								
Roll Length (meters)	40 ^(a)	40	32	26	23	20	17	16

(a) Except NL 10 MAT. Minimum Thickness 2,0 mm

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