



ANC AMBER NOMEX COMMERCIAL HONEYCOMB

Amber's ANC core is manufactured from Nomex® paper sheets and is coated and bonded together with a phenolic resin.

FEATURES:

- > High strength-to-weight ratio
- > Easily formed to shape
- > Readily available
- > Corrosion resistance against water, oil and fuel
- > Low cost
- > High temperature capabilities
- > Fire-resistant, self extinguishing and low fumes toxicity
- > Good thermal and electrical insulator

APPLICATIONS

Designed to offer industrial users and designers high strength to weight properties at relatively low cost, particularly suitable as a core material for production of non-metallic sandwich structures using high performance fibre reinforced composites as the facing material.

Typical sandwich panel applications include,

- Pleasure boats
- Skis
- Surfboards
- Navy joiner panels
- Ground antennas
- Racing car bodywork



ANC AMBER NOMEX[®] COMMERCIAL HONEYCOMB

PRODUCT DESIGNATION

e.g.	ANC	3.2	48	OX
	(a)	(b)	(c)	(d)
a.	ANC	= Amber Nomex Commercial honeycomb		
b.	3.2	= Cell size in millimetre.		
c.	48	= Density (Kg/m ³).		
d.	OX	= Over expanded		

PRODUCT RANGE

Standard Products

The following products are usually available as ex-stock items, other grades may be available to order.

- ANC-3.2-48
- ANC-3.2-64
- ANC-4.8-32
- ANC-4.8-48
- ANC-4.8-48-OX

For our range of Aerospace grade Nomex honeycomb, please refer to Amber ANA honeycomb TDS.

Standard dimensions and tolerances

Nominal sheet length (W) = 2500 ± 75 mm
Nominal sheet width (L) = 1250 ± 75mm
Sheet thickness as requested from 1.5mm to 100mm, ± 0.125 mm
Sheet thickness above 100mm, tolerance = ± 0.25 mm
Density as nominal, ± 10%

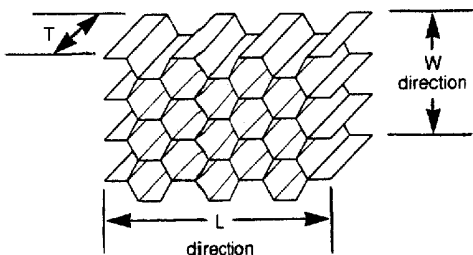
Other sheet sizes may be available upon request.



ANC AMBER NOMEX[®] COMMERCIAL HONEYCOMB

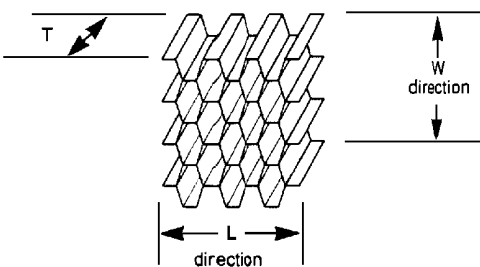
GRADE	COMPRESSIVE			PLATE SHEAR			
	BARE	STABILISED		L DIRECTION		W DIRECTION	
	Strength psi	Strength psi	Modulus ksi	Strength psi	Modulus ksi	Strength psi	Modulus ksi
ANC-3.2-48	275	310	18.5	160	5.3	90	3.0
ANC-3.2-64	464	TBA	TBA	217	8.0	116	4.4
ANC-4.8-32	145	TBA	TBA	101	4.4	50	2.2
ANC-4.8-48	270	320	18.2	125	4.6	80	3.5
ANC-4.8-48 OX	600	650	26.0	131	4.6	149	8.4

Hexagonal Cell



T = Thickness, or cell depth
L = Ribbon direction
W = Direction perpendicular to the ribbon direction

Over-Expanded Cell



T = Thickness, or cell depth
L = Ribbon direction
W = Direction perpendicular to the ribbon direction

For further information refer to Aluminium Honeycomb Material Safety Datasheet.

This is not a specification. The information given in this data sheet in relation to the performance, storage and other characteristics of the product is based on results gained from experience and tests and is believed to be accurate. Given, however, that conditions of use and storage will vary, Amber Composites will not be liable for any loss or damage resulting from reliance upon such information. The purchaser is recommended to carry out his own tests to establish the suitability of the product for its particular purpose. The use of the product in certain processes may require third party consent.