

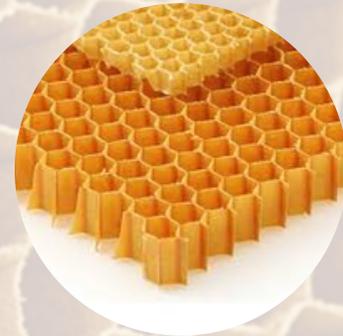
PRODUCT DATA SHEET

DESCRIPTION

Aerospace grade Ecomex honeycomb core is manufactured from Aramid paper sheets (Nomex®) and is coated and bonded together with a phenolic resin. Designed to offer users and designers high strength-to-weight properties at relatively low cost, Ecomex honeycomb is particularly suitable as a core material for production of sandwich structures requiring significant FST performance and using high performance fiber reinforced composites as the facing material.

FEATURES

- High strength-to-weight ratio
- Easily formed to shape
- Excellent fire-resistant and self-extinguishing properties to FAR 25.583
- Corrosion resistance against water, oil, and fuel
- High temperature capabilities; service temperature up to 180°C
- Good dielectric properties
- Cut to customer specifications



TYPICAL APPLICATIONS

- Sandwich panel applications
- Aircraft flooring - varying densities depending on level of duty
- Aircraft interiors - ranging from sidewalls, galleys, and ceilings, including commercial aerospace, business, and VIP interiors
- Cargo lining
- Helicopter rotor blades
- Aircraft leading and trailing edges
- Fuselage components

Nomex® is the registered trademark of Dupont

PRODUCT DESIGNATION

e.g.	EMX	3.2	48	
	(a)	(b)	(c)	(d)
a.	EMX	Ecomex aerospace Aramid honeycomb		
b.	3.2	Cell size in millimeters		
c.	29	Density (kg/m ³)		
d.	(OX)	Overexpanded		

STANDARD DIMENSIONS

The standard dimensions are mm 1250x2500

General tolerances - 5mm / + 10mm

Thickness chosen by the customer: minimum 4 mm up to 400 mm

Density as nominal ± 10% (except EMX -3.2-29 ± 13%)

Other sheet sizes may be available upon request.

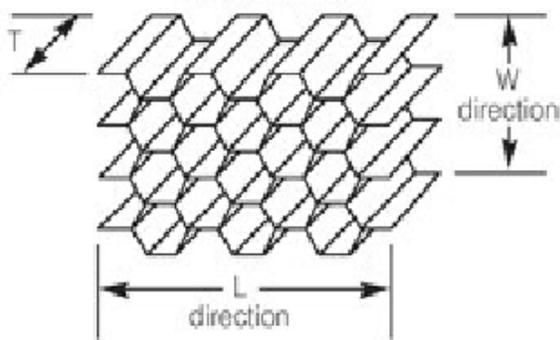
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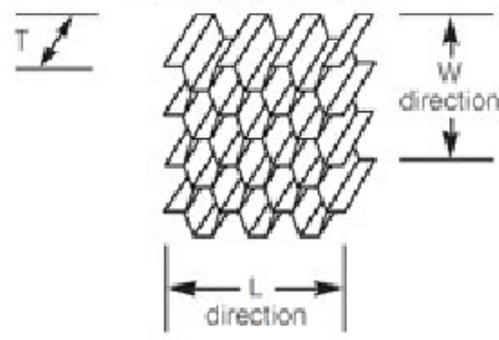
MECHANICAL PROPERTIES

Property	Stabilized Compression		Plate Shear			
	Strength (MPa)	Modulus (MPa)	Strength "L Direction" (MPa)	Modulus "L Direction" (MPa)	Strength "W Direction" (MPa)	Modulus "W Direction" (MPa)
EMX-3.2-29	0.90	60	0.5	25	0.35	17
EMX-3.2-48	2.4	138	1.25	40	0.73	25
EMX-3.2-64	3.9	190	2.0	63	1.0	35
EMX-4.8-48(OX)	2.9	120	0.8	20	0.85	35

HEXAGONAL CELL



OVEREXPANDED CELL



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

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