

CORMASTER KEVLAR AEROSPACE N636

WEIGHT SAVING MATERIAL FOR AERONAUTICAL APPLICATIONS

ADVANTAGES

Superior compressive properties, 20% higher than nomex® honeycombs
Extremely high shear moduli, from 1,5 to 3 times increase
Low moisture absorption
Excellent fatigue properties
High hot / wet characteristics

DELIVERY TIME

Kevlar honeycomb is available from Corex Honeycomb stock, ensuring short lead times. Delivery time on request.

MATERIAL

Non metallic structures made from KEVLAR® N363 para-aramid paper sheets (manufactured by Dupont)
Bonded together and coated with a phenolic resin.

APPLICATION

Ideal use in the aeronautical applications where weight savings are permanent requirements
Excellent strength and stiffness allows use of lower density cores in the structural sandwich applications

Please get in touch to discuss your requirements and to find out more about Cormaster Kevlar.



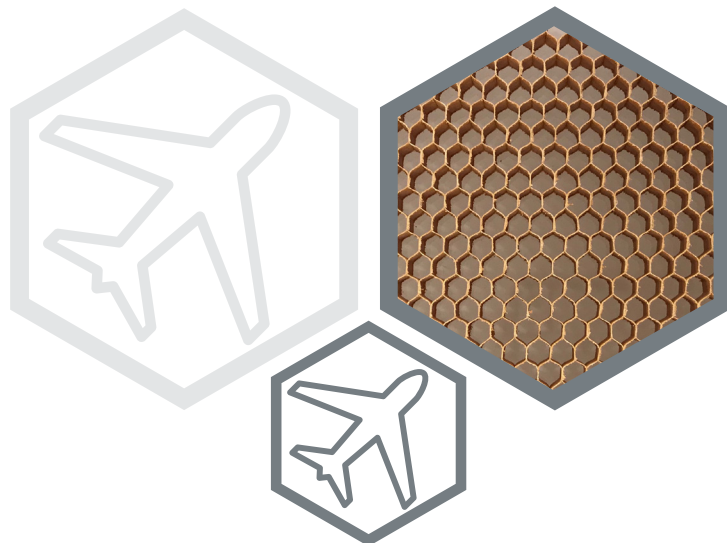
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+44(0) 1480 415053
corex-honeycomb.com



TECHNICAL DATA CORMASTER KEVLAR AROSPACE N636

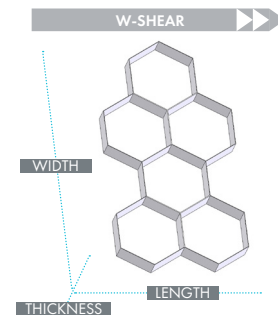
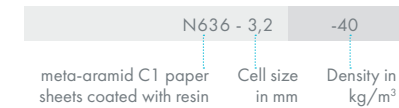
HONEYCOMB DESIGNATION	N636 weight osy	bare compressive strength (MPa)	shear strength (MPa)		shear modulus (MPa)		
			L	W	L	W	
N636 - 3,2	-40	0,9	1,74	1,34	0,74	135	48
	-48	0,9	2,67	1,95	0,93	132	59
	-64	0,9	3,84	2,48	1,43	136	67
	-96	1,2	8,82	3,11	2,23	192	96
N636 - 4,0	-72	1,2	5,23	2,60	1,90	144	88
	-96	1,8	8,30	4,45	2,93	222	119
N636 - 4,8	-28	0,9	0,94	0,72	0,46	72	36
	-32	0,9	0,98	0,84	0,52	80	39
	-37	0,9	1,45	1,28	0,63	89	41
	-48	1,2	2,20	1,63	0,91	114	59
N636 - 9,6	-40	1,14	1,14	1,19	0,75	282	43

KEY: osy = ounce per square yard (1 osy = 33,91 gr/m²)



Honeycomb density: the allowable tolerance is +/- 10 % from the nominal density. Exceptions to this are 3.2-29, 4.8-29 OX and 6.4-24, which have a tolerance of +/- 13 % of the density. These mechanical properties are only representative.

Please note, that it is important to consider the different properties for L- and W-Shear and confirm the Cormaster type to enable us to provide a quotation.



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